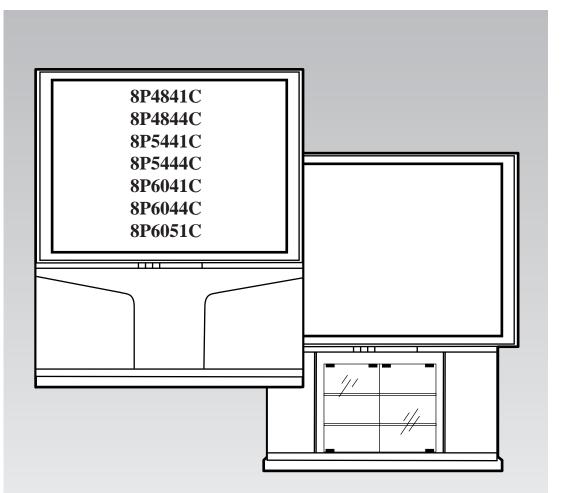
Owner's Manual

PROJECTION TELEVISION



PHILIPS MAGNAVOX

MPORTANT Return Your Warranty Registration Card Within 10 Days. See Why Inside.

1 - IB7894 E001

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS MAGNAVOX warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your **purchase**, and welcome to the "**family**!"

PHILIPS MAGNAVOX



Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. You've selected one of the best-built, best-backed products

available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome-and thanks for investing in a PHILIPS MAGNAVOX product. Sincerely,

Robert Minkhorst President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!





This "bolt of lightning" indicates uninsulated material within your unit which may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

DHILIPS MAGNAVOX Visit our World Wide Web Site at http://www.philipsmagnavox.com

SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- 1. **Read Instructions** All the safety and operating instructions should be read before the appliance is operated.
- 2. **Retain Instructions** The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings All warnings on the appliance and in the operating instructions should be adhered to.
- 4. Follow Instructions All operating and use instructions should be followed.
- Water and Moisture The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
- 6. Carts and Stands The appliance should be used only with a cart or stand that is recommended by the manufacturer.



6A

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination - to overturn.

- 7. Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8. Ventilation The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 9. Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 10. Power Sources The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 11. Power-Cord Protection Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.

- **12.** Cleaning The appliance should be cleaned only as recommended by the manufacturer.
- **13. Power Lines** An outdoor antenna should be located away from power lines.
- **14. Outdoor Antenna Grounding** If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.

- **15.** Non-use Periods The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- **16. Object and Liquid Entry** Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 17. Damage Requiring Service The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - **D.** The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
- **18. Servicing** The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

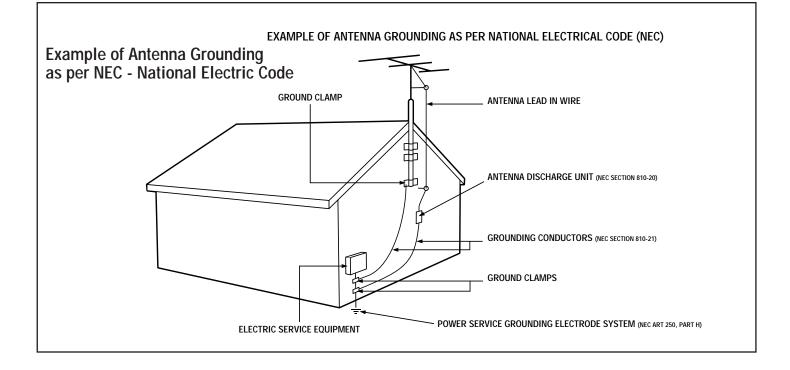


TABLE OF CONTENTS

(()	

Getting Started

	Welcome/Product Registration	2
Safety/P	recautions	3
Table of	Contents	4
Features	, Model and Cabinet Information	5

On-Screen Features

PICTURE MENU

6
7
8
9

FEATURES MENU —

♦ Selecting a Picture Source10
Setting the TV for Closed Captioning11
♦Setting the TV for Cable or Antenna Signals12
♦ Adding Channels in Memory (Automatically) .13
♦ Adding Channels in Memory (Manually)14
♦Setting the TV Clock15
⇔Turn-On Timer
♦Using the Sleep Timer Control17
♦ Adjusting the Channel Display Control
♦Using the Time/Channel Reminder Control18
♦Using Parental Control to Censor Channels 19-20
♦Using the Channel Label Control21
♦Using the Language Selection Control22
SOUND MENU ———
♦ Adjusting Bass, Treble, and Balance Sound
Controls23
Setting the Bass Boost Control23
♦ Setting the TV for Stereo and SAP Programs24
♦Using the Incredible Stereo Control25
♦Using the Volume Display Control25
♦Using the TV Speaker On/Off Control with
the Audio Output jacks26
♦Surround Sound Speaker Connections and

Variable Audio Output Control27 ♦Using the TV's Audio/Video Input and

v Osnig the Tv	s Audio/ video input and
Output Jacks	

Because of continuous product improvements, the information mentioned in the documents accompanying your product are subject to change without notice.

<u>Remote Control Operation</u>

Setting the Smart Picture Control	3
Using Smart Sound Control	1
Using the Smart Surf Control	5
Setting the Remote to Work VCRs	7
Setting the Remote to Work Cable TV Converters)
Setting the Remote to Work VCRs or Cable Converters - "Search Method"40)
Using the Remote's VCR buttons4	

<u>Picture-In-Picture (PIP)</u>

How to Use PIP (Connections)4 How to Use PIP with the TV Remote	2-43
How to Use PIP with the TV Remote	44
Selecting the Picture Source for PIP	45
Adjusting Picture-in-Picture Color and Tint	46
More PIP Connections (Cable Converter)	47

General Information

TV Help Menu	
Tips if Something Isn't Working	49
Glossary of TV Terms	50
Index	51
Factory Service Locations	52-53
Warranty	56

SET-UP AND QUICK USE GUIDE

Use the simple Set-Up Guide (supplied with your TV information packet) for details on:

- Antenna Hook-ups
- First Time Set-Up (Automatic Settings)



- Basic TV and Remote **Control Operation**
- **On-Screen** Menu Use

NOTE: This owner's manual is used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television set. This is normal and does not require you contacting your dealer or requesting service.

FEATURES



First Time Set Up - automatically sets the TV for local channels, the correct picture signal (antenna or cable), and assists in the setting of TV's Smart Clock feature.

Infrared Remote Control - operates your TV set and a variety of wireless remote control VCRs and Cable TV Converters.

Standard TV broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Closed Captioning - allows the viewer to read TV program dialogue or voice conversations as on-screen text.

Automatic Programming of channels - for quick and easy selection of favorite stations available in your area.

Picture-In-Picture (PIP) - can show a TV program and the direct video output from an accessory (VCR, etc.) onto the TV screen at the same time.

Parental Control for "Censoring" - this feature can block out channels to keep children from watching undesirable programming.

Stereo-TV - with a built-in audio amplifier and a twin speaker system, reception of TV programs in both broadcast stereo sound or (SAP) bilingual broadcast are available.

Twin Antenna (A/B) Inputs - for easy displaying of two separate signal sources on the TV. An A/B button on the remote control switches the TV's Main screen between the two Antenna (A & B) Input options.

Audio/Video Jacks - for direct connections with VCRs (and other accessories) for quality TV picture and sound playback.

Surround Sound - this TV set contains external audio speaker connections for a more dynamic sound effect.

Sleep-Timer - automatically turns the TV OFF at preset time intervals.

Smart Button - for the control of TV Sound and the Picture levels. Use the Smart Button on the remote to quickly adjust Smart Sound (to set TV Volume levels during program changes or commercial breaks); Smart Picture (for programmed video video level adjustments on a variety of program sources); and Smart Surf (for quick one button channel selection of up to 10 of your favorite channels). As you unpack your TV please note that the following items have been included with your set:

- Owner's Manual
 - Safety Tip Information
 - Factory Service Center Locations
- Warranty Registration Card
- Remote Control Transmitter
- Batteries for Remote Control Use

Please take a few minutes to complete your registration card. The serial number for the TV is on the back of the set.

Refer to the back of this manual for instructions on the cleaning and care of the TV.

End-of-Life disposal

Your new projection television and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts which need to be properly disposed.

Your product also uses batteries which should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

Please find out about the local regulations on how to dispose of your old television, batteries, and packaging materials whenever you replace existing equipment.

PICTURE MENU CONTROL ADJUSTMENTS

COLOR, BRIGHTNESS, SHARPNESS, TINT, PICTURE

 To adjust your TV color and picture controls, select a TV channel and follow the steps shown below:

 EEGIN

 Select BRIGHTNESS, PICTURE, COLOR, TINT, or SHARPNESS picture control.

 With the PICTURE MENU on screen, move the RED highlight with the MENU (M) ♀ buttons. Then press the MENU button.

 Press the (+) or (-) buttons to adjust the selected control.

 Press the STATUS button to

clear the screen.

SMART HELP

STOP

Remember. When the bar scale is centered, control settings are at normal mid-range levels.

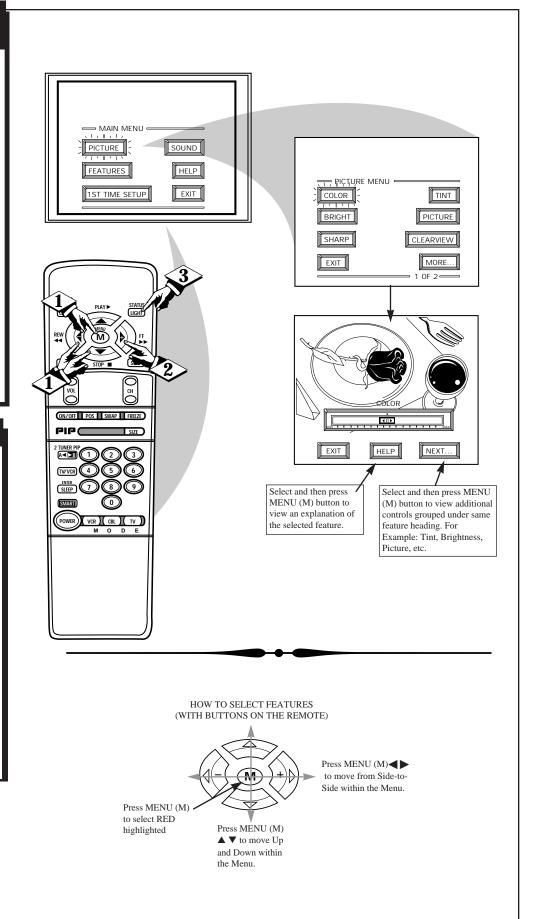
BRIGHTNESS Press (-) **or** (+) until dark parts of the picture show good detail.

<u>PICTURE</u> Press (-) **or** (+) until whitest parts of the picture are as bright as you prefer.

<u>COLOR</u> Press (-) or (+) to add or eliminate color.

<u>TINT</u> Press (-) **or** (+) to obtain natural skin tones. (Also see Flesh Correction on page 9 for more information).

<u>SHARPNESS</u> **Press** (-) or (+) to improve detail in the picture.



PICTURE MENU CONTROLS (CONTINUED)

CLEARVIEW

Clearview is a sharpness feature which smoothes out background snow (or picture noise) without losing picture image detail or crispness.

(BEGIN)

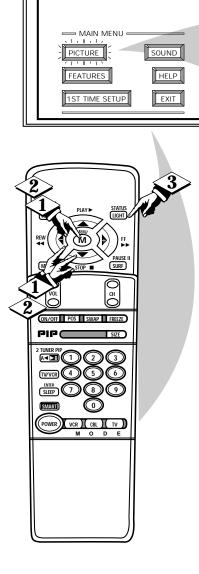
Select CLEARVIEW control.

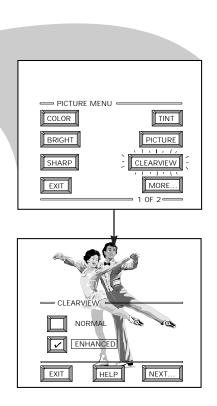
With the PICTURE MENU on screen, move the RED highlight with the MENU (M) () buttons. Then press the MENU button.

Press the MENU ▲▼ buttons to move the RED highlight. Press the MENU button to select () the ENHANCED mode.

Press the STATUS button to clear the screen.

STOP





PICTURE MENU CONTROLS (CONTINUED)

RED/BLUE CONVERGENCE

Convergence is the correct lining up of the red and blue light paths on the TV screen. NOTE: If no color fringing (see Smart Help) shows, then no Convergence adjustments are necessary for your TV. BEGIN Select CONVERGENCE control. With PICTURE MENU (2 of 2) on

with PICTURE MENU (2 of 2) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

2 If there is RED or BLUE color fringing on the White cross, press the MENU button to continue.

Press the MENU buttons to move the red or blue cross directly over the white cross on the TV screen.

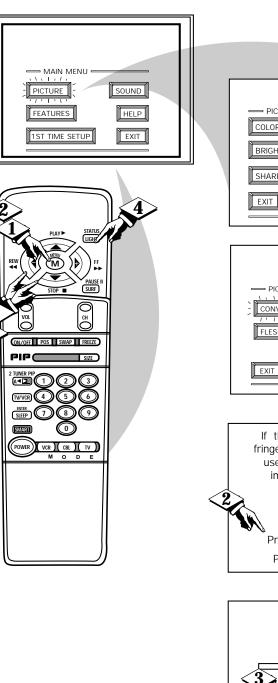
> The red or blue cross is properly adjusted when it is completely merged with the white cross. (No color appears around the edge of the white cross).

Press the STATUS button to clear the screen when convergence adjustments are complete.



SMART HELP

Remember. Convergence has been set at the factory for best viewing, but if one or more of the (red or blue) colors appear around the edges of objects (color fringing) follow the steps given in this section.



PICTURE MENU COLOR TINT BRIGHT PICTURE SHARP CLEARVIEW EXIT MORE 1 0F 2 PICTURE MENU CONVERGENCE FLESH CORRECTION EXIT MORE... 2 OF 2 If there is RED or BLUE fringe on the WHITE cross, use this adjustment to improve the picture. Press "M" to Continue - or -Press "▶" to Return Use the keys to merge the RED fringe into the WHITE cross. Press "M" to Continue

PICTURE MENU CONTROLS (CONTINUED)

FLESH CORRECTION

Use the Flesh Correction control to keep skin tone hues (or facial tint) from varying from TV channel to TV channel.

BEGIN

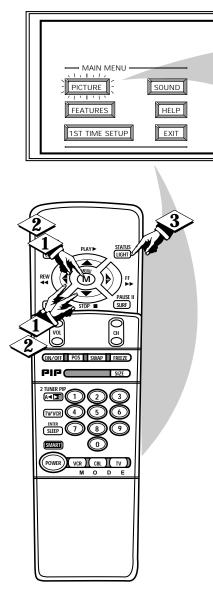
Select FLESH CORRECTION control.

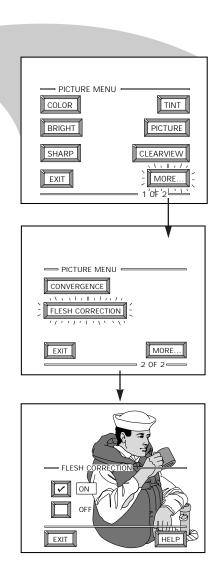
> With PICTURE MENU (2 of 2) on screen, move the RED highlight with the MENU (M) (buttons. Then press the MENU button.

Press the MENU ▲▼ buttons to move the RED highlight. Press the MENU button to turn () the FLESH CORRECTION control ON.

3 Press the STATUS button to clear the screen.

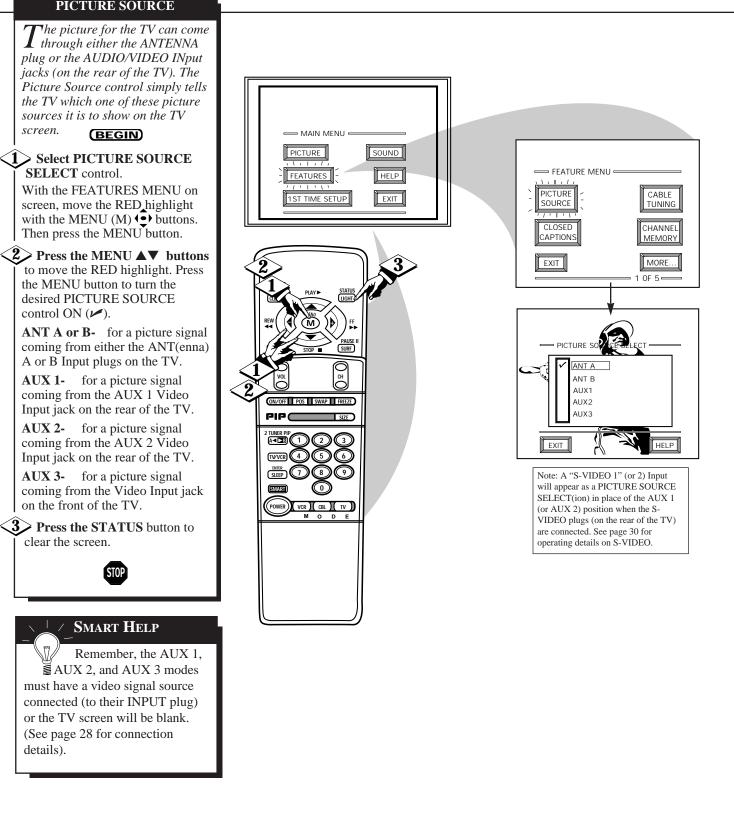
STOP





FEATURE MENU CONTROL ADJUSTMENTS

PICTURE SOURCE



CLOSED CAPTION

Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

BEGIN

Select CLOSED | CAPTIONING control.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) (D) buttons. Then press the MENU button.

2 Press the MENU ▲▼ buttons to move the RED highlight. Press the MENU button to select () the desired Closed Caption mode - For Example: "ALWAYS ON" and "CAPTION 1".

> **CAPTION 1,** 2, 3, 4: dialogue (and descriptions) for the action on the captioned TV program shows on-screen. (See Important Note on this page.)

TEXT 1, 2, 3, 4:

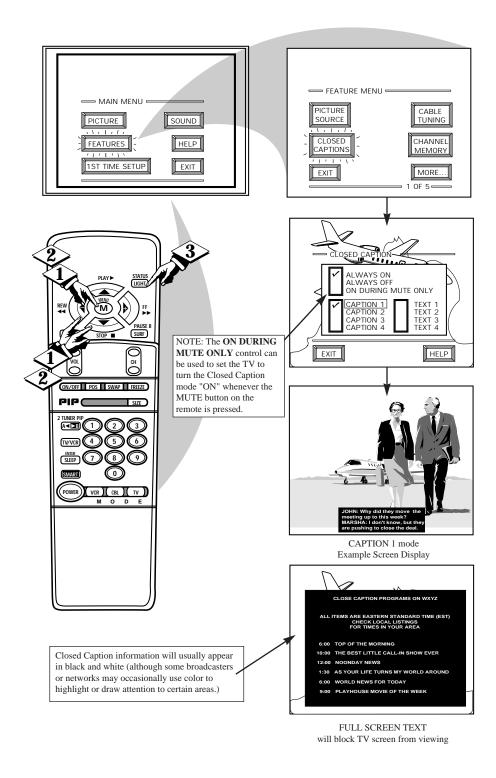
often used for channel guide, schedules, or bulletin board information for CC programs.

After making your Caption mode selection, press the **STATUS** button to clear the TV screen. The selected Closed Caption mode will be active.

To cancel, set the Closed Captioned feature to OFF when finished.

/ SMART HELP

Remember. Broadcast stations will often use spelling abbreviations, symbols, dropouts and other grammatical shortcuts in order to keep pace with the on-screen action. These type factors vary upon the source of the captioned text material and do not indicate a need for service on the part of the TV. **NOTE: Not all TV programs and product commercials** are made for broadcast with Closed Caption (CC) information included. Neither are all Closed Caption modes (CAPTION 1-4; or TEXT 1-4) necessarily being used by a broadcast station during the transmission of a closed caption program. Usually "CAPTION 1" is the most used mode to view captioned material. Refer to your area's TV program listings for the stations and times of Closed Caption shows.



FEATURE MENU CONTROLS (CONTINUED)

CABLE TUNING

You need to make sure the TV is set to pick up either Cable TV or Antenna signals. In other words, the TV needs to know if you connected a Cable TV signal or a normal antenna to its ANTENNA plug.

NOTE: If you went through First Time Setup (in your Quick Use Guide), this task has already been completed for you.

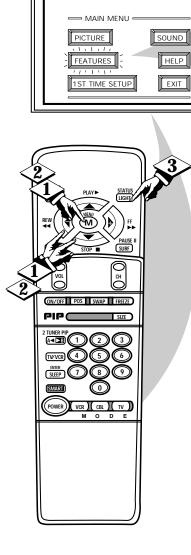
BEGIN Select CABLE CHANNEL TUNING control.

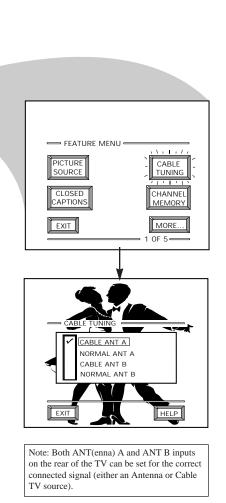
With the FEATURES MENU on screen, move the RED highlight with the MENU (M) (D) buttons. Then press the MENU button.

Press the MENU ▲▼ buttons
 to move the RED highlight. Press
 the MENU button to select () the
 desired mode - For Example:
 CABLE.

- CABLE- If you DO have Cable TV connected to the TV. Channels 1-125 available.
- NORMAL- If you have an Antenna connected to the TV. Channels 2-69 available.
- **3** Press the STATUS button to clear the screen.







FEATURE MENU CONTROLS (CONTINUED)

CHANNEL MEMORY AUTO-PROGRAMMING

Your TV can automatically set itself for local area (or Cable TV) channels. This makes it easy for you to select only the TV stations in your area when the CHANNEL $\blacktriangle \lor$ buttons are pressed.

NOTE: If you went through First Time Setup (in your Quick Use Guide), this task has already been completed for you.

(BEGIN)

Select CHANNEL MEMORY (START AUTO-PROGRAMMING) control.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) \bigoplus buttons. Then press the MENU button.

Press the MENU button to turn AUTO-PROGRAMMING ON .

The TV shows which channel numbers are "SAVED" (▶) as they are added into memory.

"Auto-programming CHANNEL MEMORY is finished" shows when the TV is through adding channels.

Press the STATUS or Menu (M) | button to clear the screen.



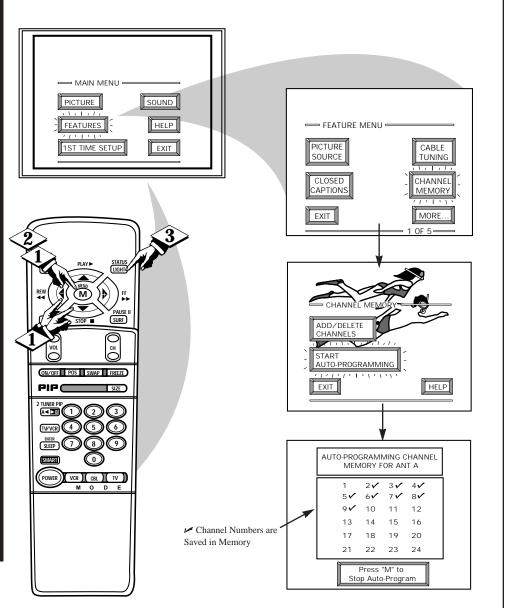
SMART HELP

Try it out. **Press the** CHANNEL▲▼ buttons

and see which channels you can select.

Remember, an Antenna or Cable TV signal must first be connected to your TV so that channels can be saved.

If you want to delete any unwanted channels from the TV's memory, see "ADD/DELETE CHANNELS" on the next page.



ADD/DELETE CHANNELS

A uto-Programming (see previous page) adds all the channels it can find (on your Antenna or Cable TV system) into the TV's memory. Add/Delete Channels makes it easy for you to add other channels, or drop unwanted channels, from the list of channels in the TV's memory.

(ADD/DELETE CHANNELS) control.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) () buttons. Then press the MENU button.

Press the CHANNEL ▲ ▼ or number buttons to select the channel you want to add or delete.

3 Press the MENU ► button to ADD the channel into the TV's memory.

Press the MENU ◀ button to DELETE the channel from memory.

Repeat steps 2 and 3 for each channel you wish to add or delete.

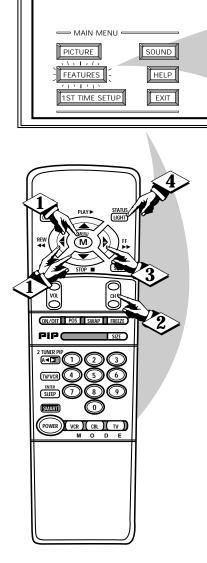
Press the STATUS or MENU
 button to clear the screen when
 through.

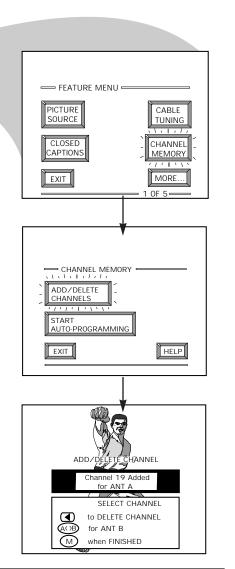


SMART HELP

Remember. You can also add the AUX 1, AUX 2, or AUX 3 modes just like a channel. Then by pressing the CHANNEL ▲▼ buttons the AUX(iliary) mode can quickly be selected to use the desired set of Input jacks on the TV (see page 28). Note: AUX 1, AUX 2, and AUX 2

Note: AUX 1, AUX 2, and AUX 3 modes are located between the lowest and highest channel numbers within the ADD/DELETE CHANNEL control screen.





NOTE: A separate ADD/DELETE CHANNEL memory may also be created for the ANT(enna) B Input on the rear of the set (if an Antenna or Cable TV signal has been connected). Just press the ADD/DELETE DELETE CHANNEL mode, to switch between the ADD/DELETE CHANNEL mode, to switch between the ANT A and ANT B channel memory lists. Then follow steps 2 and 3 as shown to the left to add or delete the desired channels.

SET CLOCK

Your TV comes with an onscreen clock. During normal operation the clock appears on the screen with every channel change (and when the STATUS button is pressed).

NOTE: If you went through First Time Setup (in your Quick Use Guide), this task has already been completed for you.

BEGIN Select SET CLOCK control.

With FEATURES MENU (2 of 5) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the remote's number buttons to set the time clock.

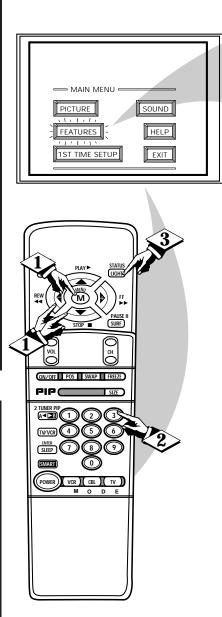
Press the STATUS button to set the clock in operation and clear the screen.

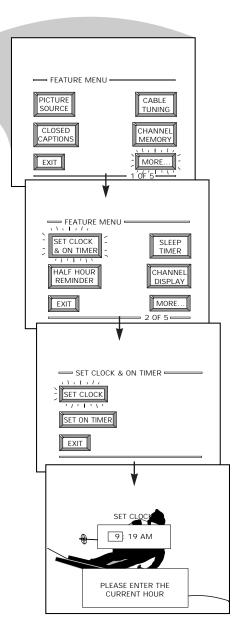
SMART HELP

Remember, be sure to press "0" first and then the hour number for single digit entries.

The remote's MENU (M) buttons can also be used to set the hours, minutes and AM/PM portions of the clock.

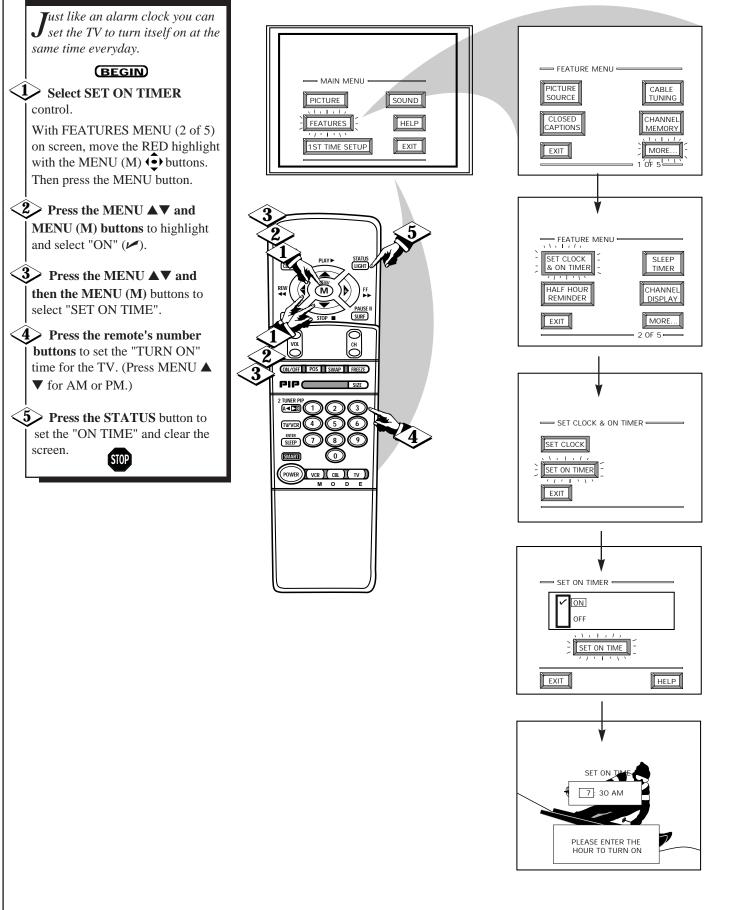
TV Clock settings may be lost when the TV is unplugged (or AC power to the set is interrupted.)



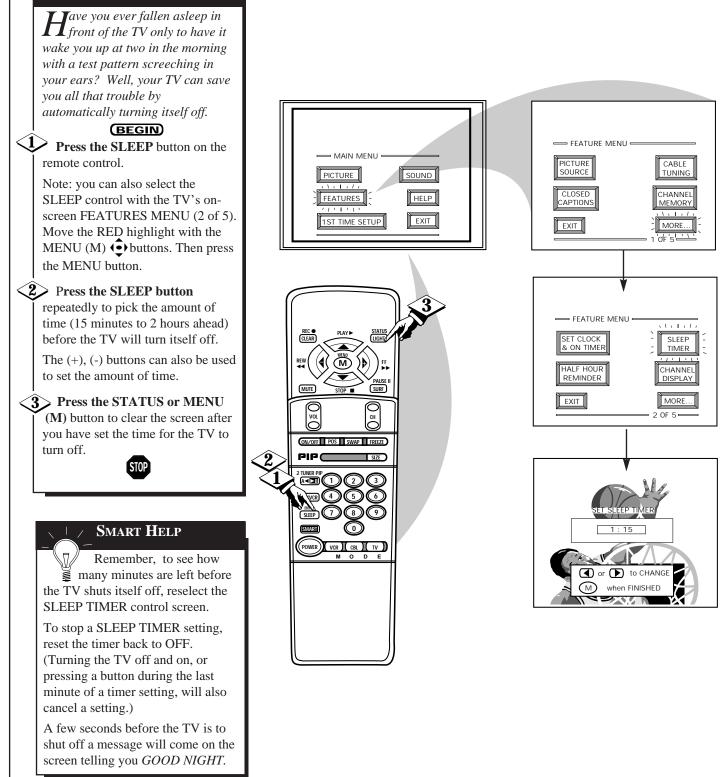


FEATURE MENU CONTROLS (CONTINUED)

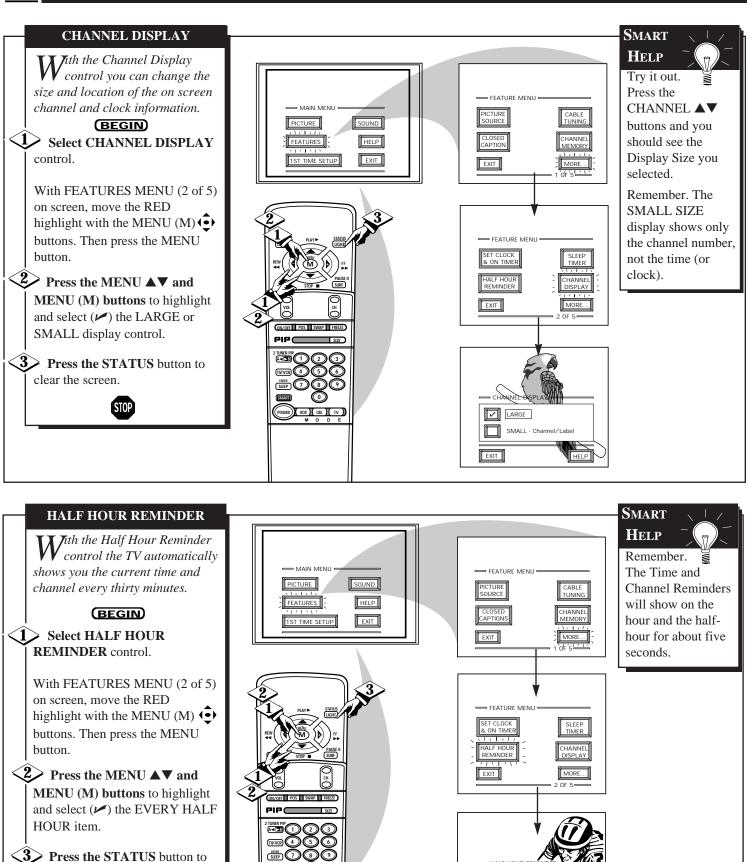
SET ON TIMER



SLEEP TIMER



FEATURE MENU CONTROLS (CONTINUED)



CR (CBL) TV

clear the screen.

STOP

HALF HOUR RE

EVERY HALF HOUR

OFF OFF

PARENTAL CONTROL

Parental Control allows parents to block out, or "censor", any channels they think children should not watch. A channel placed under Parental Control cannot be viewed until a correct access code is used to unlock the channel for viewing.

First let's set your Parental Code:

BEGIN Select the PARENTAL | CONTROL.

With FEATURES MENU (3 of 4) on screen, move the RED highlight with the MENU (M) (buttons. Then press the MENU button.

"BLOCK CHANNELS" and "SETUP CODE" show on screen.

Press the MENU ▲▼ and MENU (M) buttons to highlight and select the SETUP CODE item.

Press 0, 7, 1, 1 on the remote.
"XXXX" shows on the ACCESS CODE SETUP screen as you press the number buttons.

> "INCORRECT ACCESS CODE -TRY AGAIN" will also show on the screen.

4 Press 0, 7, 1, 1 on the remote again.

"Next Enter Your New Access Code" shows on the screen.

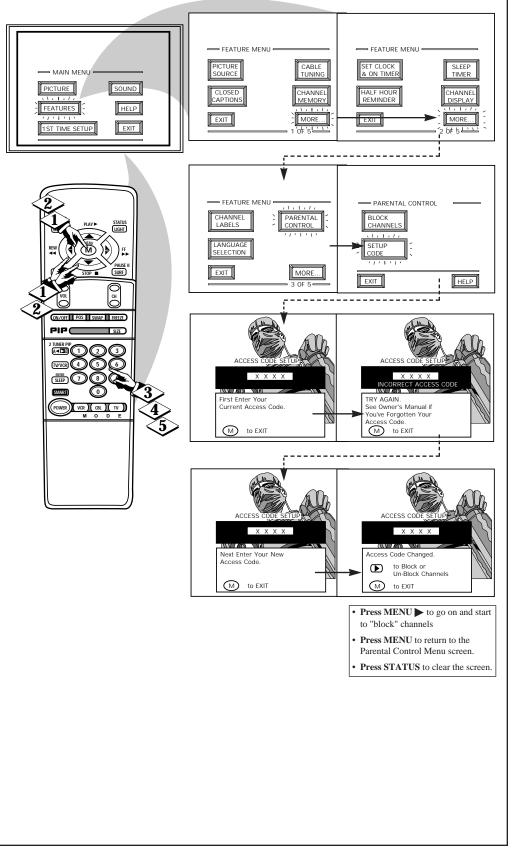
5 Enter a new four digit number code using the remote.

"Access Code Changed" shows on the screen to let you know the new code has been set.

Continue to the next page to find out how to "block" channels from viewing.

SMART HELP

Parents - it isn't possible to unlock or defeat your Censor Code without changing to a new code number. So if your Code number changes, and you didn't change it yourself, then you will know that someone has altered the code and the blanked out channel has been viewed. NOTE: Your TV left the factory with the Parental Code set to "0000". If you are using your TV and the Parental Control for the first time, and don't want to SETUP a new Access code number, you can use the "0000" number to block channels - see next page. The "0711" Parental Code (shown on this page) is given as a default or way to reset the Code when the current Access number is not known.



PARENTAL CONTROL

fter your personal Parental **1***Code number has been set (see* previous page), you are now ready to select the channels you want to block out or censor. (BEGIN) $\langle 1 \rangle$ Select the BLOCK CHANNELS control. With FEATURES MENU (3 of 5) on screen, move the RED highlight with the MENU (M) (\bullet) buttons. Then press the MENU button. \checkmark Press the MENU $\blacktriangle \lor$ and **MENU (M) buttons** to highlight and select the BLOCK CHANNELS item.

Senter the correct Parental Code number.

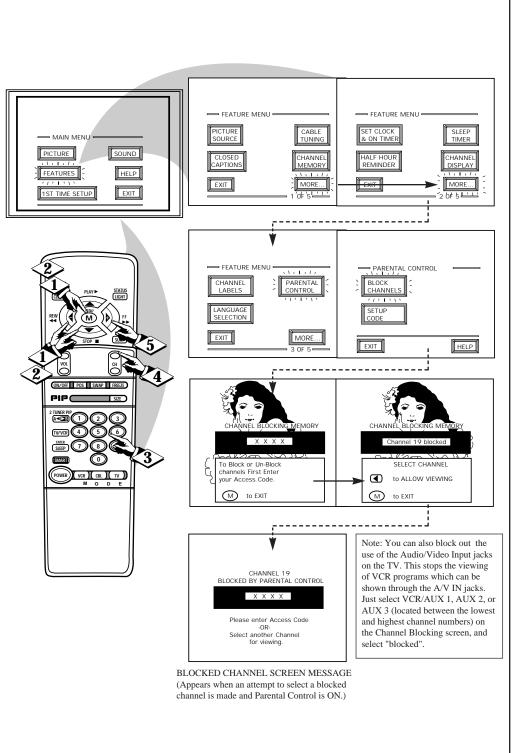
S Press the MENU ▶ button to "BLOCK VIEWING" on the selected channel. Press the MENU ◀ button to "ALLOW VIEWING" on a blocked channel.

Repeat steps 3 and 4 for any other channels you wish to block out.

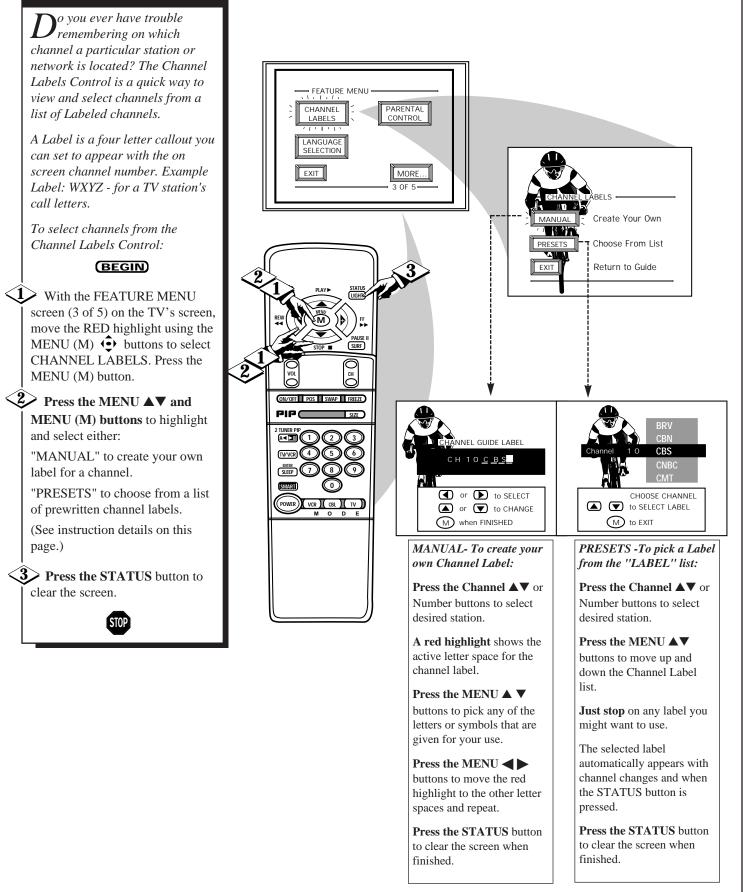


SMART HELP

Remember, once set Parental Control blocks out the selected channel number on both the ANT A and ANT B channel rings. Also, to make TV viewing easier all channels (for both ANT A/B and Audio/Video Input jacks) will be unblocked, once the correct Parental Code number has been entered. When the TV is turned OFF and then back ON again, is when Parental Control is back in place for all blocked out channels.



CHANNEL LABELS



LANGUAGE

Note: If you went through First Time Setup, This task has already been completed for you.

For our Spanish and French speaking TV owners an on-screen LANGUAGE option is present. With the LANGUAGE control you can set the TV's on-screen features to be shown in either English, Spanish or French.

↓ (BEGIN) ↓ Select the LANGUAGE ↓ DISPLAY control. ↓ With FEATURES MENU (3 of 5) on screen, move the RED highlight with the MENU (\$) ↓ buttons. Then press the MENU (M) button.

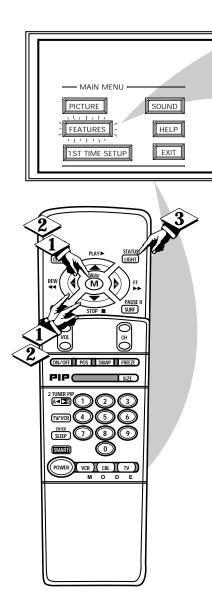
Press the MENU ▲▼ and MENU (M) buttons to highlight and select () English, Spanish (ESPANOL), or French (FRANCAIS) on the display control.

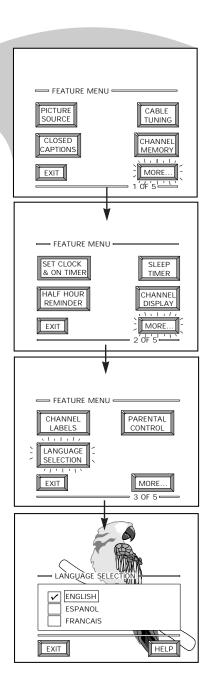
Text for the on-screen Menu will change to the selected language.

Press the STATUS button to clear the screen.

SMART HELP

Remember, the Language control only makes the TV's on-screen (MENU) items appear in English, Spanish, or French text. It does not change the other on-screen text features such as Closed Captioned (CC) TV shows.



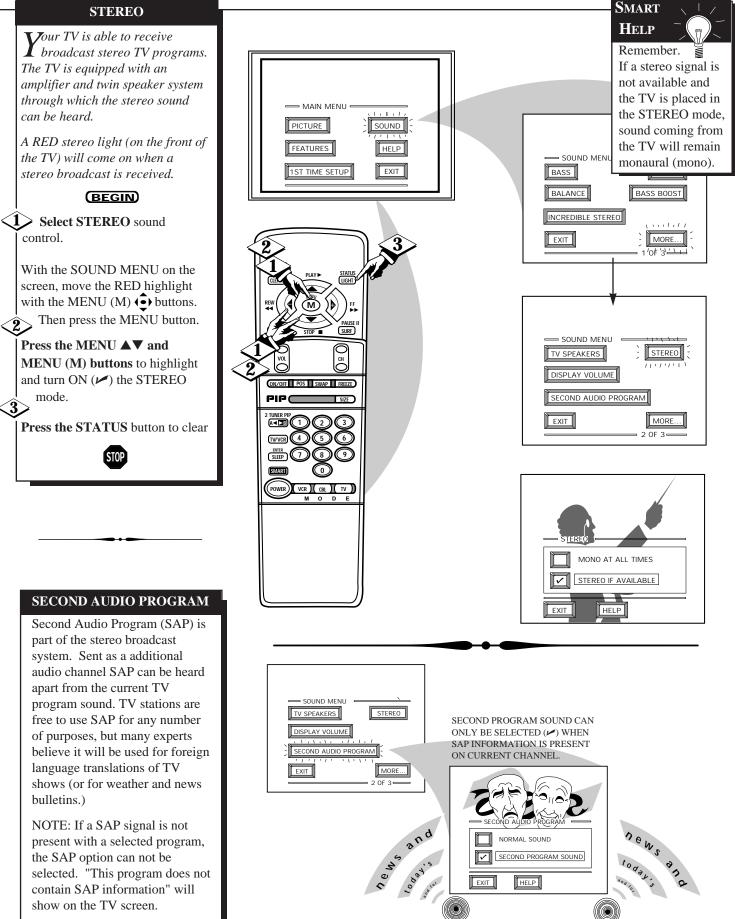


Sound Menu Control Adjustments

BASS, TREBLE, BALANCE Your TV also has individual sound adjustment controls. The BASS (low frequency), TREBLE MAIN MENU (high frequency), and Speaker PICTURE SOUND BALANCE may all be used to FEATURES HELP - ISOUND MENU adjust the sound playback of TV BASS TREBLE EXIT 1ST TIME SETUP programs. BASS BOOST BALANCE (BEGIN) INCREDIBLE STEREO MORE... Select BASS, or TREBLE, or EXIT BALANCE sound control. With the SOUND MENU on the screen, move the RED highlight with the MENU (M) (\bullet) buttons. Then press the MENU button. FF POS SWAP FF PIP (**Press the** (+) **or** (-) **buttons** to adjust the sound control to levels you prefer. Select and then press MENU **3** Press the STATUS button to (M) button to view additional clear the screen. controls grouped under same feature heading. For STOP Example: Treble, Balance, Bass Boost, Stereo, etc. **BASS BOOST** The BASS BOOST control *increases the low frequency* audio range of the TV. This creates - MAIN MENU SOUND a deeper, fuller playback sound PICTURE which can be heard through the FEATURES HELP - SOUND MENU TV's speakers. EXIT 1ST TIME SETUP BASS TREBLE (BEGIN) BALANCE DACC DOOCT Select BASS BOOST sound INCREDIBLE STEREC control. MORE EXIT With the SOUND MENU on the screen, move the RED highlight with the MENU (M) (\bullet) buttons. Then press the MENU button. 2 Press the MENU $\blacktriangle \forall$ and MENU (M) buttons to highlight ON ON and turn ON (1/2) the BASS FF POS SWAP FREEZE OFF BOOST control. PIP (NEXT EXIT HELP **3** Press the STATUS button to clear the screen. STOP

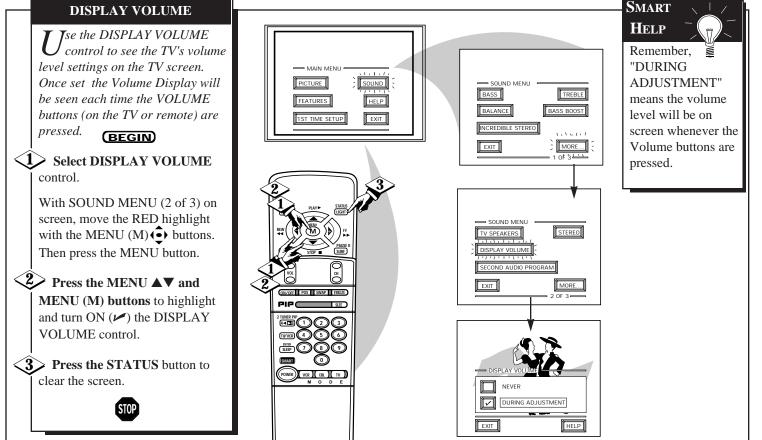
STEREO

 $\langle \mathbf{\hat{3}} \rangle$

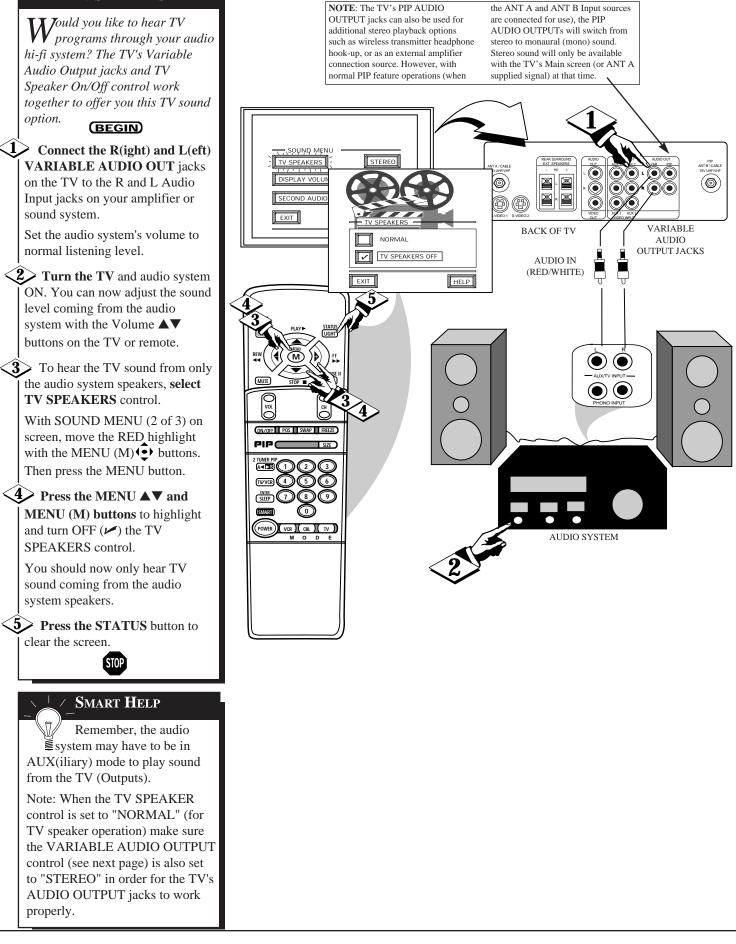


INCREDIBLE STEREO Smart HELP \overline{T} he Incredible Stereo control can be used to add greater Remember, MAIN MENU depth and dimension to both with the Incredible SOUND monaural (MONO) and STEREO PICTURE Stereo control FEATURES HELP TV sound. turned ON even - SOUND MENU (BEGIN) TREBLE monaural (mono) EXIT BASS 1ST TIME SETUP <1> Select INCREDIBLE STEREO audio source BASS BOOST BALANCE control. material can be INCREDIBLE STERI heard through rear EXIT MORE... With the SOUND MENU on the Surround Sound screen, move the RED highlight speaker connections with the MENU (M) \bigoplus buttons. (see page 27). Then press the MENU button. Note: The monaural version of Surround \checkmark Press the MENU $\blacktriangle \lor$ and Sound may be MINIMUM MENU (M) buttons to highlight louder at the rear set MAXIMUM and turn ON (\checkmark) the of speakers than NO EXPANSION PIP (**INCREDIBLE STEREO** mode. what is normally heard with true For Example: "MAXIMUM" stereo signal spreads the Incredible Stereo effect Surround Sound, as wide as possible. VCR T CBL T TV but this is normal. **3** Press the STATUS button to clear the screen. STOP

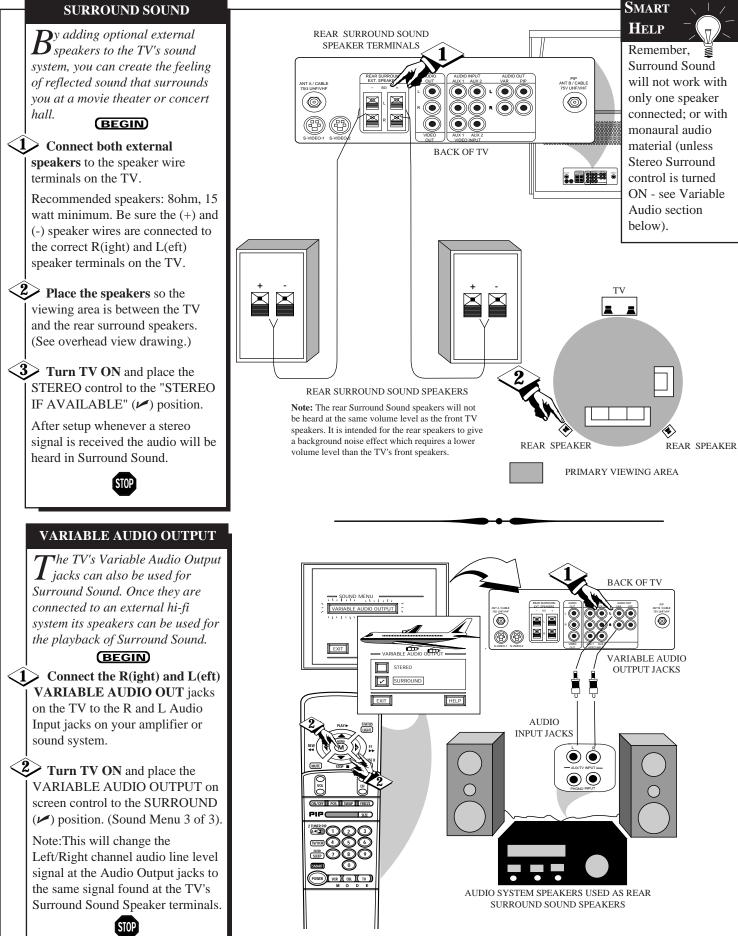




TV SPEAKERS



SURROUND SOUND



USING THE AUDIO/VIDEO INPUT JACKS

VCR/AUX INPUTS

The TV's Audio/Video Input jacks are for direct picture and sound connections between the TV and a VCR (or Video Disc Player, etc.) that has Audio/Video Output jacks.

To view the playback of a VCR tape by using the Audio/Video Input jacks on the TV:

BEGIN

Connect the VIDEO OUT jack from the VCR to the AUX 1 VIDEO IN jack on the TV.

2 Connect the AUDIO OUT jacks R(ight) and L(eft) from the VCR to the AUX 1 AUDIO IN jacks on the TV.

3 Select the "AUX 1" PICTURE SOURCE SELECT control on the TV.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) () buttons. Then press the MENU button.

4 Press the MENU $\blacktriangle \lor$ and

MENU (M) buttons to highlight and select (𝒴) the AUX 1 mode.

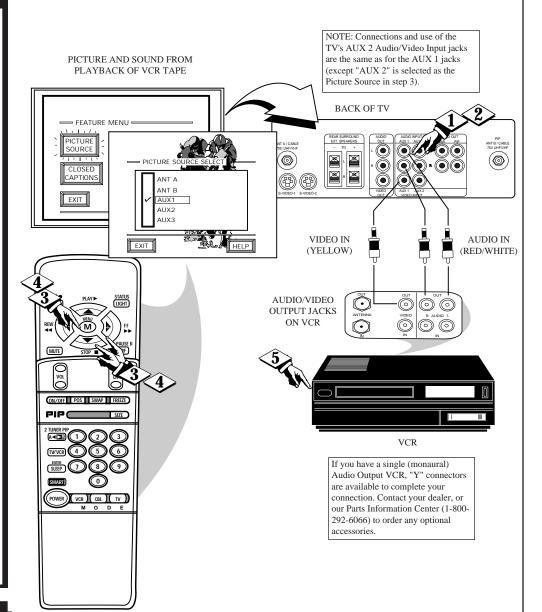
Turn the VCR ON and press **5** PLAY to view the tape on the TV.



SMART HELP

Remember, after it is connected an easy way to select the AUX 1 mode is to press the VCR button on the front of the TV (or the TV/VCR button on the remote.) Channels 3/4, ANT A/B, AUX 2/3, and the last channel viewed can also be selected in this way.

If you have added AUX 1 to the TV's channel memory (see page 14), just press the CHANNEL ▲▼ buttons to select the AUX 1 mode.



USING THE AUDIO/VIDEO INPUT JACKS (CONTINUED)

AUX 3 INPUTS

For more convenient Direct playback connections the TV's Front Audio/Video Input panel can be used. Located next to the TV's front control panel (under a small *cover door) these Input jacks allow* for quick and easy connections, particularly for the playback of Camcorder tape recordings.

To view the playback of a Camcorder recording using the Audio/Video Input jacks on the front of the TV:

(BEGIN)

1 Connect the VIDEO OUT jack from the Camcorder to the Front VIDEO IN jack on the TV.

2 Connect the AUDIO OUT jacks R(ight) and L(eft) from the Camcorder to the Front AUDIO IN jacks on the TV.

3 Select the "AUX 3" PICTURE SOURCE SELECT control on the TV.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) $(\overline{ \bullet})$ buttons. Then press the MENU button.

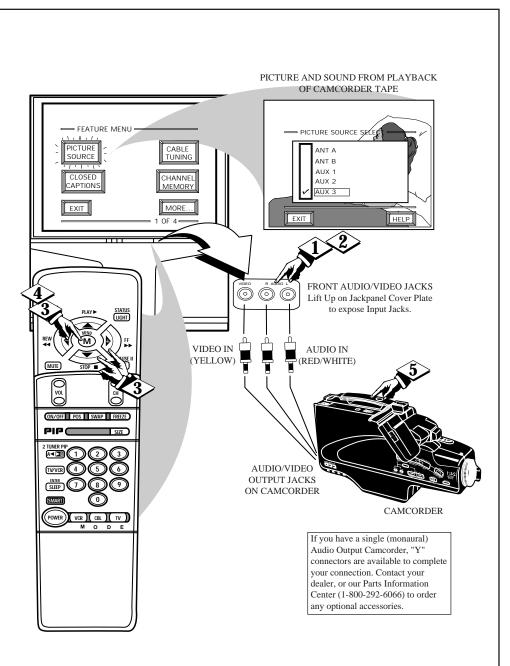
4 Press the MENU $\mathbf{A} \mathbf{\nabla}$ and MENU (M) buttons to highlight and select (*I*) the AUX 3 mode.

5 Turn the Camcorder ON and press PLAY to view the tape on the TV. STOP

SMART HELP

Remember, after it is connected an easy way to select the AUX 3 mode is to press the VCR button on the front of the TV (or the TV/VCR button on the remote). Channels 3/4, ANT A/B, AUX 2/3, and the last channel viewed can also be selected in this way.

If you have added AUX 3 to the TV's channel memory (see page 14), just press the CHANNEL \blacktriangle **v** buttons to select the VCR/AUX mode.



AUX1 - S-VIDEO INPUTS

The S(uper)-Video connection on the rear of the TV can give you better picture detail and clarity, for the playback of S-VHS VCR tapes or Video Discs, than the normal antenna picture connections.

Note: The VCR (or Video Disc Player) must have a S-VIDEO OUT(put) jack in order for you to complete the connections shown on this page.

BEGIN

Connect the S-VIDEO (S-VHS) OUT jack from the VCR to the S-VIDEO 1 jack on the TV.

> The S-VIDEO connecting cable will be supplied with the S-VHS VCR (or Video Disc Player).

2 Connect the AUDIO OUT jacks R(ight) and L(eft) from the VCR to the AUDIO AUX IN 1

Select the "S-VIDEO" | PICTURE SOURCE control.

jacks on the TV.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) (buttons. Then press the MENU button.

The "S VIDEO" picture source option appears only when a S-VIDEO cable has been connected to the TV.

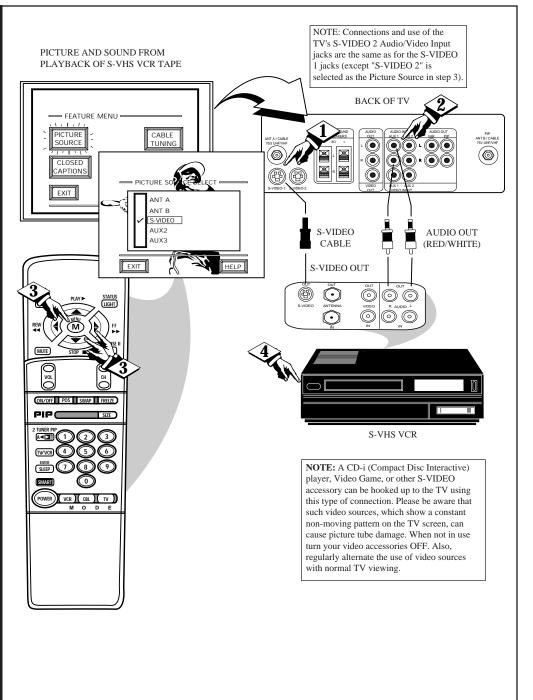
4 Turn the VCR ON and place it in the S-VIDEO (or S-VHS) playback mode. Insert S-VHS cassette tape and playback in a normal manner.

STOP

/ SMART HELP

Remember, after it is connected an easy way to select the S-VIDEO mode is to press the VCR button on the front of the TV (or the TV/VCR button on the remote.)

If you have added AUX 1 to the TV's channel memory, just press the CHANNEL ▲▼ buttons to select the S-VIDEO mode.



USING THE AUDIO/VIDEO OUTPUT JACKS (CONTINUED)

AUDIO/VIDEO OUTPUTS

The Audio/Video Output jacks on the TV can be used to record TV programs on VCRs which have Audio/Video Input jacks.

To record TV programs by using the Audio/Video jacks on the TV:

(BEGIN)

Connect the VIDEO OUT jack from the TV to the VIDEO IN jack on the VCR.

Connect the AUDIO OUT jacks R(ight) and L(eft) from the TV to the AUDIO IN jacks on the VCR.

Select the "ANTENNA" PICTURE SOURCE control on the TV.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) (buttons. Then press the MENU button.

Select the channel on the TV that you want to record.

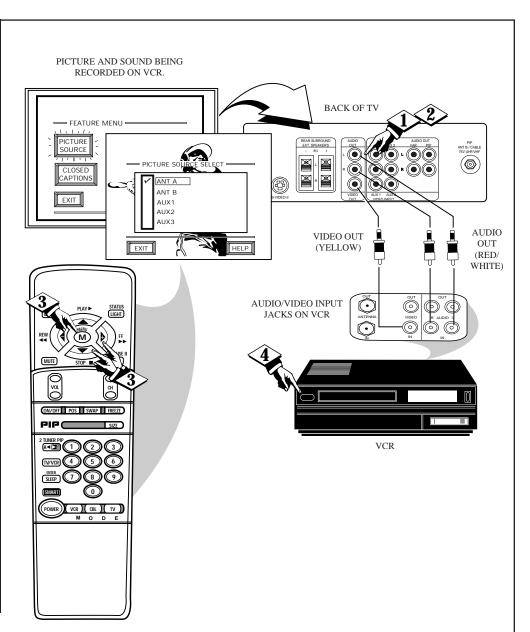
4 Turn the VCR ON. Put a cassette tape in the unit and place the VCR in the RECORD mode.



SMART HELP

Remember, If the VCR has an INPUT SELECTOR switch, place it in the LINE or CAMERA position.

Unattended Timer Recordings with a VCR are possible, but not recommended with this connection since the TV must be left ON for the VCR to record.



SMART PICTURE

Regardless of what type of program your watching, your TV has automatic video control settings matched for your current program source or content. The Smart Picture feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home.

(BEGIN)

Press the SMART button on the remote.

Press the MENU (M) button to select the Smart Picture feature (highlighted in RED).

SPress the MENU ▲ or ▼

buttons to choose any of the preset viewing categories (Example: Cartoons, Movies, etc.). Then press the Menu (M) button to select the highlighted control.

4 Press the STATUS button on the remote to clear the screen.



SMART HELP

Remember, with Smart Picture "Custom" mode selected you can set a number of video controls to your own preference. Use the remote's Smart button to reselect these personally adjusted Custom settings contained within the Smart Picture feature. (See the next page for more detailed instructions.)

The video control settings for the Smart Picture categories (except CUSTOM) are memorized into the TV at the factory and can only be reset by field and service technicians.

SMART PICTURE

T o use the Custom Smart Picture settings placed in memory (see the previous page):

Press the SMART button on the remote.

List of "SMART PICTURE " categories shows on the TV screen.

Press the MENU ▲ or ▼ buttons to highlight the "CUSTOM" Smart Picture category.

3 Press the MENU (M) button.

Press the MENU buttons to move the RED highlight to the control you wish to adjust, then press the Menu (M).

5 Press the STATUS button after you have finished your adjustments to clear the screen.



CHANGE LABEL

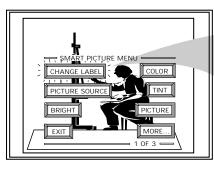
The "CHANGE LABEL" control can be used to change the title of a SMART PICTURE setting into a name or label that may be easier for you to remember.

(BEGIN)

With the "SMART PICTURE LABEL" control on the screen, **press the MENU** ▲▼ buttons to spell out a new label or title for the selected SMART PICTURE.

2 Press the MENU ◀ ▶ buttons to move the red highlight to each letter space.

3 Press the STATUS button to clear the screen when the new label is finished.



	ł	
	or b select	
$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	or to CHANGE when FINISHED	

SMART SOUND

A re you tired of the sound of commercials following you into the next room or all through the house? Smart Sound allows you to preset a desired volume level that the TV sound will not go above. This makes for an even, more consistent sound by reducing the "peaks" and "valleys" that can occur during program changes or commercial breaks. Press the SMART button on the remote.

With the SMART Menu on the screen, move the RED highlight with the MENU (buttons. Then press the MENU (M) button to select the highlighted Smart Sound control.

3 Press the MENU ▲ or ▼ and then the MENU (M) button to turn the Smart Sound control ON (or OFF).

 Press the STATUS button to clear the screen when completed.
 SIOP

SMART HELP

Remember, Smart Sound works for sound levels coming from either the Antenna/Cable input on the rear of the TV (RF audio); or the Auxiliary (VCR/AUX IN) audio inputs.

2-CHANNEL SURF/SMART SURF

"list" or series of previously Aviewed channels can be selected with the SURF button on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The Smart Surf control allows you to set up to 10 channels in its quick viewing "list".

(BEGIN)

<1> Press the Smart button on the remote.

2 With the SMART Menu on screen, move the RED highlight with the Menu (M) (buttons. Press the MENU button to select the highlighted Smart Surf control.

3 Press the Menu \blacktriangle or \triangledown , then the Menu (M) button to select either Smart Surf or 2-Channel Surf. (See explanation of Surf options with the illustration on this page.)

4 Press STATUS button on the remote control to clear the screen.



HOW TO USE SMART SURF

(BEGIN)

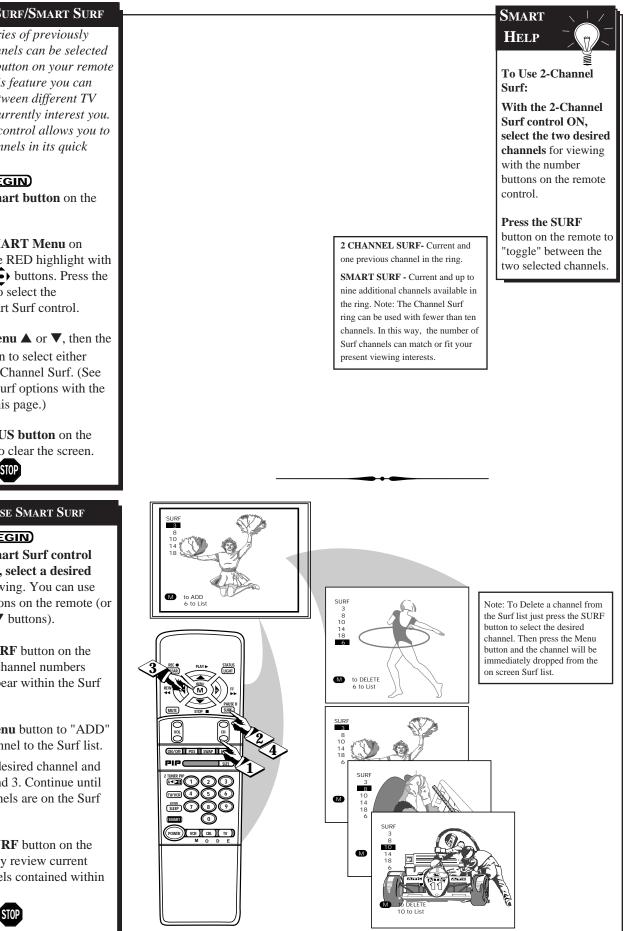
(1) With the Smart Surf control ON (see above), select a desired channel for viewing. You can use the number buttons on the remote (or the Channel $\blacktriangle \nabla$ buttons).

2 Press the SURF button on the remote. (Some channel numbers may already appear within the Surf channel list.)

3 Press the Menu button to "ADD" the selected channel to the Surf list.

> Select the next desired channel and repeat steps 2 and 3. Continue until all desired channels are on the Surf list.

4 Press the SURF button on the remote to quickly review current action on channels contained within the Surf list.



SETTING THE REMOTE TO WORK VCRS

Your remote control is set to work your TV and many infrared remote (IR) control VCRs. However, an easy onetime step may be necessary before the remote will work your VCR.

Try this initial check to see if going on to the following section is necessary.

(BEGIN)

1 Press the VCR System button on the remote.

2 Point remote toward VCR and press the POWER button.

3 Does the remote turn the VCR ON?

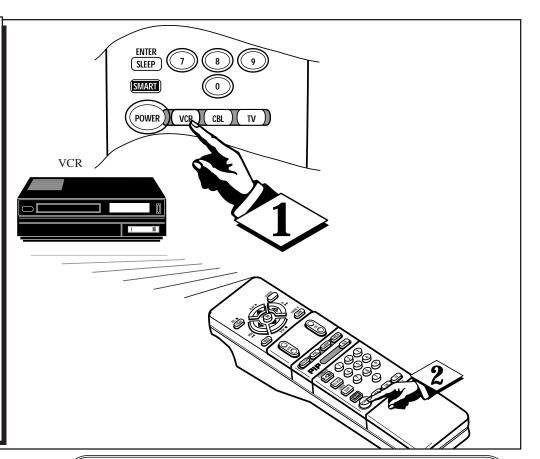
IF YES, **a** and try the other VCR buttons on the remote. If they also work the VCR, then the remote is ready and no further steps are needed. **If NO**, continue...

First look up a **TWO-DIGIT** remote code number for your brand VCR before going through the simple "1,2,3" steps (on the following page).

continue to next page

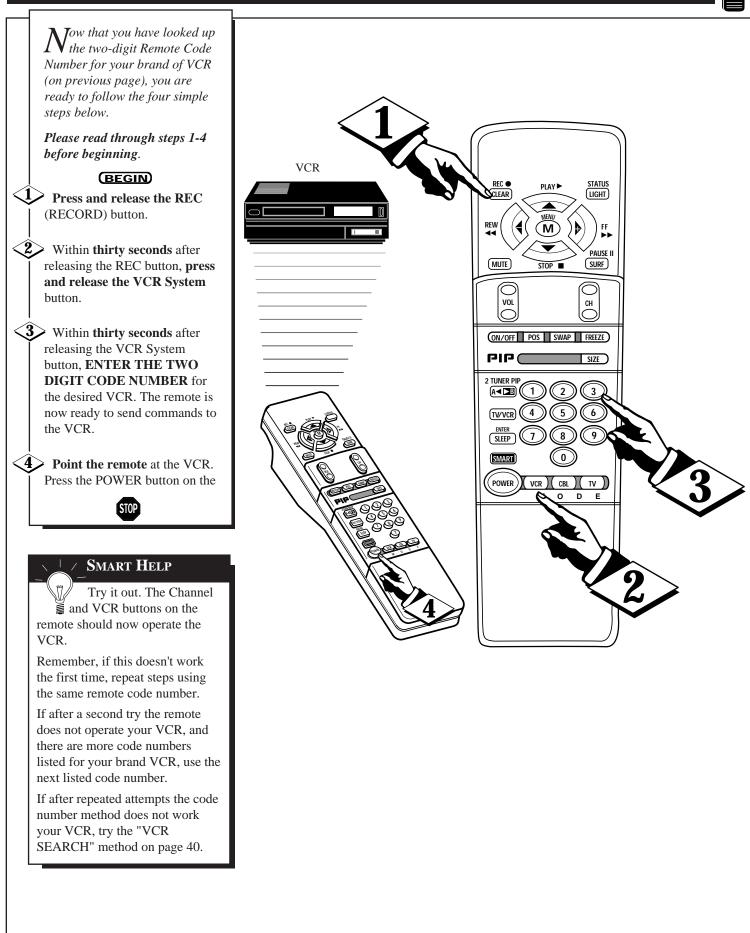
SMART HELP

Remember, if more than one number is listed, you may have to try more than the first two-digit code given in order to locate your VCR's remote code.



VCR <u>BRAND</u>	REMOTE <u>CODE NO.</u>	VCR <u>BRAND</u>	REMOTE <u>CODE NO.</u>
Akai	24, 25, 36	Panasonic	01, 02, 52
Capehart	33	Philips	00, 05
Conoid	13	Philips Video C	D 37
Curtis Mathes	42	RCA	04, 32, 42, 43, 44
Daewoo	33	Samsung	22, 30
Emerson	20, 31, 34, 40	Sansui	49
Fisher	06, 07	Sanyo	13
Goldstar	23	Sears	08
Go Video	45, 46	Sharp	11, 12
Hitachi	03, 51	Shintom	35
JVC	14, 47, 48	Sony	09, 10,41
Magnavox	00, 05	Teknika	26
Matsushita	01, 02	Toshiba	18, 19
Mitsubishi	16, 17, 38, 39, 50	Video Concepts	29
Multitech NEC	27,28 21	Zenith	15

SETTING THE REMOTE TO WORK VCRs (CONTINUED)





SETTING THE REMOTE TO WORK CABLE TV CONVERTERS

Your remote control is set to work your TV and many infrared remote (IR) control Cable Converters. However, an easy one-time step may be necessary before the remote will work your Converter.

Try this initial check to see if going on to the following section is necessary.

(BEGIN)

Press the CBL System button on the remote.

Point remote toward Cable Converter and press the POWER button.

3 Does the remote turn the Converter ON?
 IF YES,

 and try the CH ▲ ▼
 and CH number buttons on the remote. If they also work the Converter then the remote is ready and no further steps are

If NO, continue...

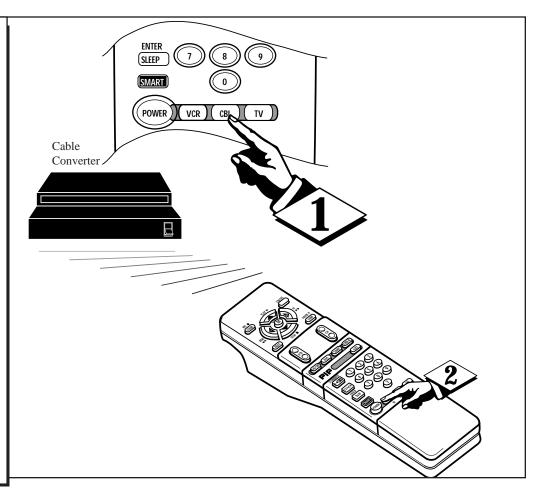
needed.

First look up a TWO-DIGIT remote code number for your brand Converter before going through the simple "1,2,3" steps (on the following page).

continue to next page

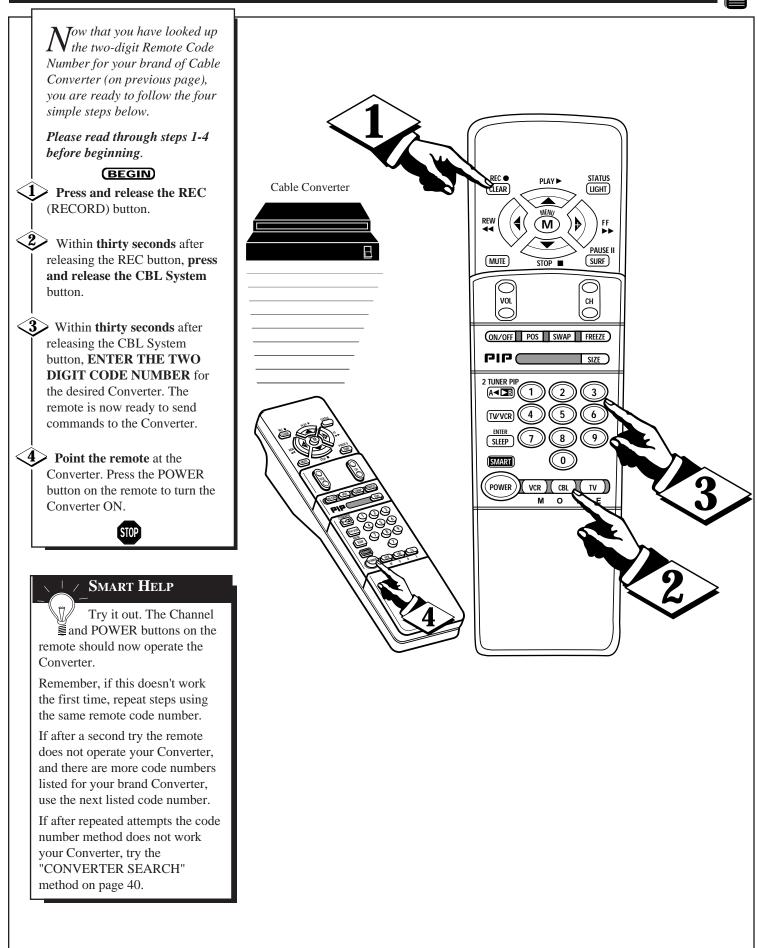
SMART HELP

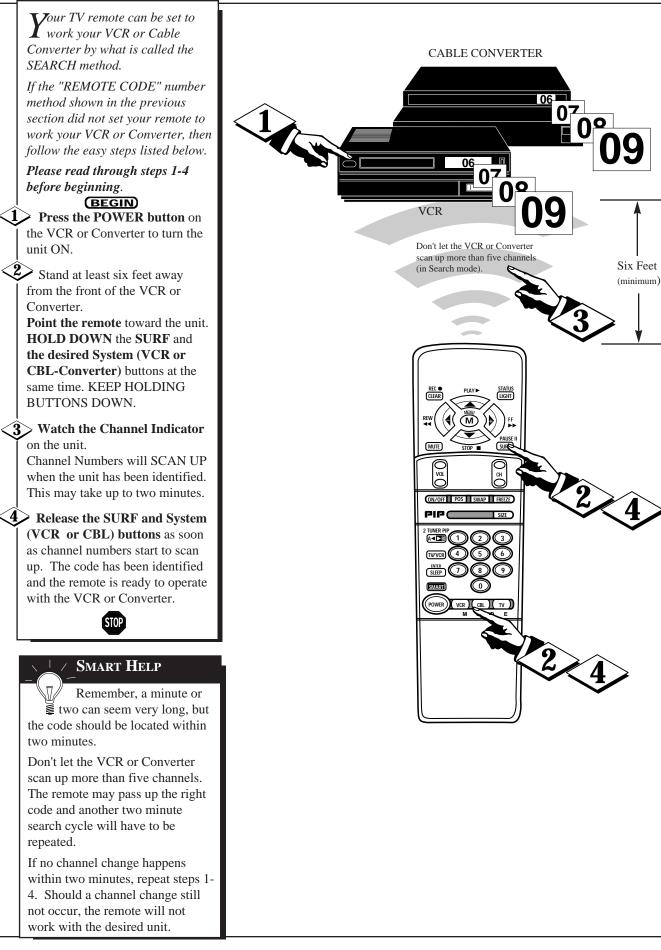
Remember, if more than one number is listed, you may have to try more than the first two-digit code given in order to locate your Converter's remote code.



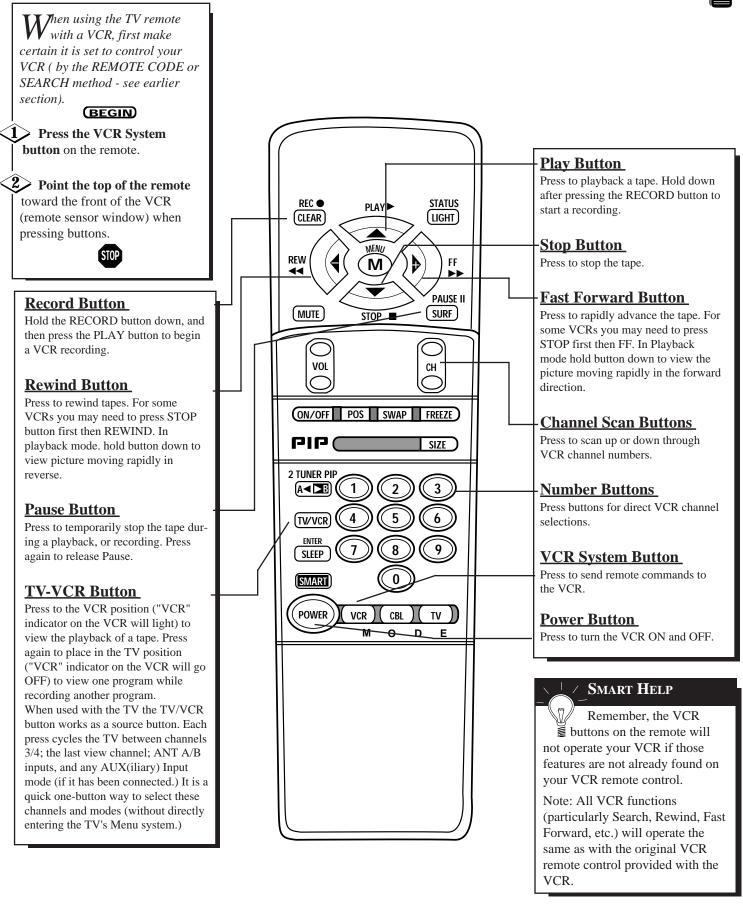
CONVERT <u>BRAND</u>	ER REMOTE <u>CODE NO.</u>		REMOTE <u>CODE NO.</u>
Archer	28	Rembrant	33
Diamond	23	Salora	52
Drake	37	Scientific Atlanta	08, 22, 47
Gemini	45	Sheritech	34
Hamlin	14, 15	Starcom	30
Hitachi	25	Sylvania	16
Jerrold 00,0)1,02,03,04,05,46,55	Texscan	48
Macom	29, 38	Tocom	12,13, 53
Magnavox	17, 31	Toshiba	43
NSC	49	Uniden Satellite	44
Oak	06, 27, 39	Unika	50
Panasonic	18, 35	United Satellite	54
Philips	19, 20, 21, 24, 26	Universal	36
Pioneer	09, 32	Video Tech	40
Regency	10, 11	Video Way	51
		Zenith	07, 41, 42

SETTING THE REMOTE TO WORK CABLE TV CONVERTERS (CONTINUED









HOW TO USE THE PICTURE-IN-PICTURE (PIP) FEATURE

Picture-in-Picture (PIP) is the showing of two pictures on the TV screen at the same time. (One main screen picture and one small inset picture - or PIP). For your ease and convenience this TV has two separate inputs (ANTenna A and ANTenna B) for your home's Antenna and/or Cable TV system signal.

The ANT A input is primarily for the TV's main screen picture. The ANT B input is provided as a second, dedicated source option for the TV's PIP "window" and its feature operations. The signal connected to the ANT B input can be either a Split Signal Input (as described in the section on this page), or another type of external signal source (such as a satellite dish system, additional home antenna, video accessory, etc.).

See the following steps on how channels connected to the ANT(enna) B Input can be shown and used within the PIP window:

BEGIN

Connect your Antenna or Cable TV signal to the single 75 ohm INPUT plug on a two-way Signal Splitter (not supplied).

Connect two lengths of RF Coaxial Cable (F-type connectors on both ends) to the two OUTPUT plugs on the two-way Signal Splitter.

2 Connect the twin OUTPUT

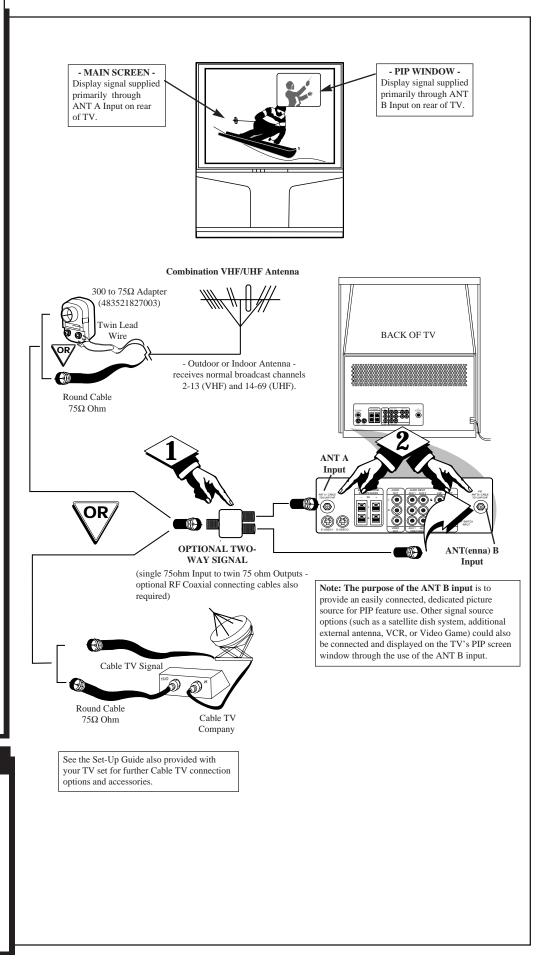
plugs on the Signal Splitter to the ANT A and ANT B Inputs on the rear of the TV.

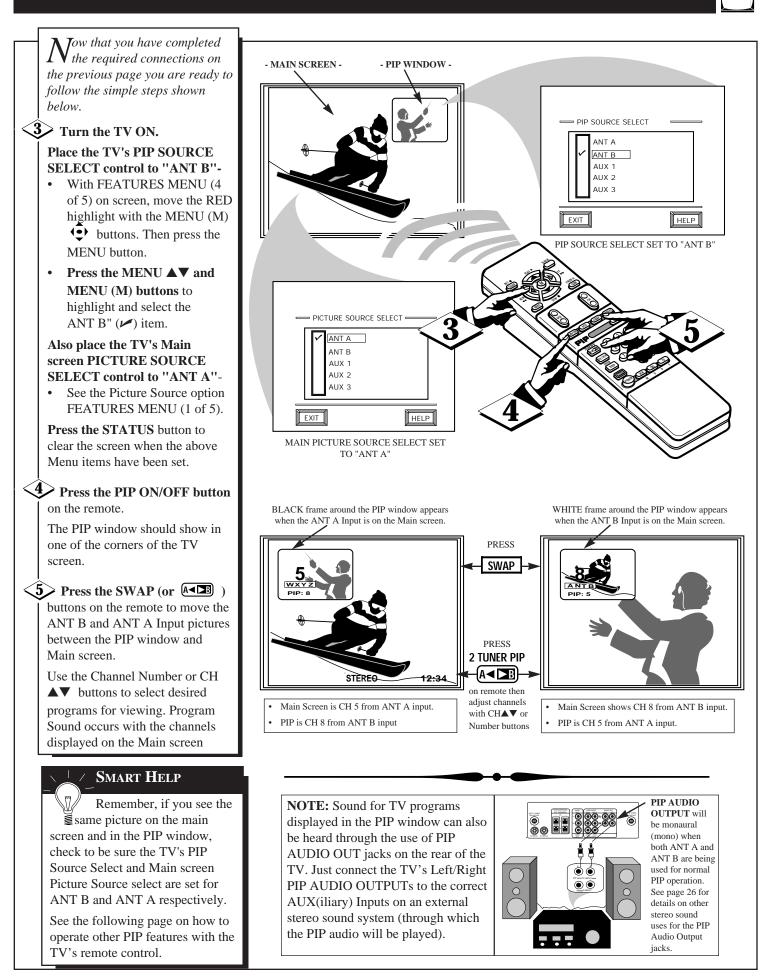
continue to next page

SMART HELP

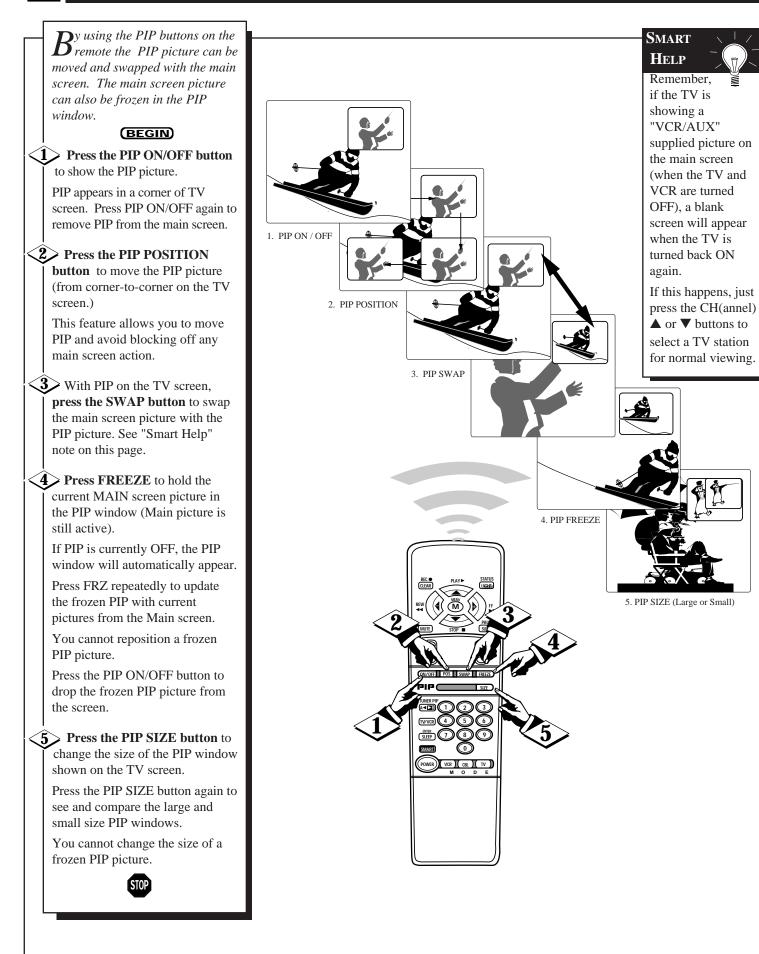
For other possible PIP connections see page 47 for the "More PIP Connections" section.

If you need any accessories or parts to complete the described PIP connections, contact your dealer, or our Parts Information Center at (1-800-292-6066), for details.





USING PIP WITH THE REMOTE CONTROL



SELECTING THE PICTURE SOURCE FOR PIP

PIP SOURCE

The picture for the PIP window can come through either the ANT(enna) A / B Inputs or the AUX 1/2/3 Inputs (on the front and rear of the TV). PIP Picture Source simply tells the TV which one of these sources it is to show in the PIP window.

(BEGIN)

Select PIP SOURCE control.

With FEATURES MENU (4 of 5) on screen, move the RED highlight with the MENU (M) () buttons. Then press the MENU button.

2 Press the MENU $\blacksquare \blacksquare$ and

MENU (M) buttons to highlight and select the desired (\checkmark) PIP Picture Source.

ANT A or B- for a picture signal coming from either the ANT(enna) A or B Input plug on the TV.

Note: The remote control's **Lange** button can also be used to quickly swap between the picture sources for the TV's Main screen and the PIP window.

AUX 1- for a picture signal coming from the AUX IN 1 Video Input jack on the rear of the TV.

AUX 2- for a picture signal coming from the AUX IN 2 Video Input jack on the rear of the TV.

AUX 3- for a picture signal coming from the Video Input jack on the front of the TV.

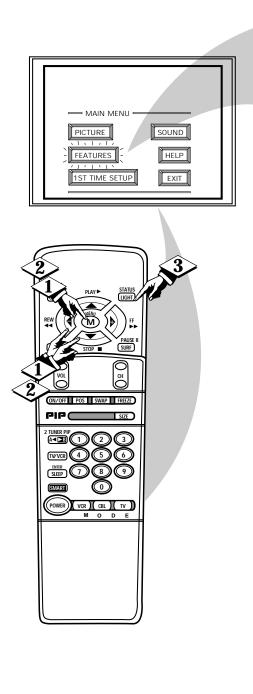
3 Press the STATUS button to clear the screen.

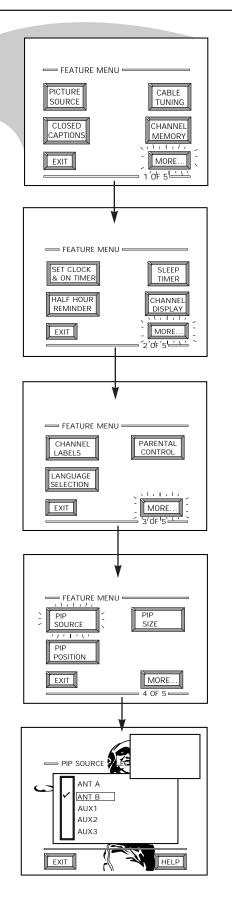


Smart Help

Remember, the PIP window will be blank unless a signal is connected to the selected PIP Picture Source (ANT B, AUX 1/2/3, etc.) on the rear of the set.

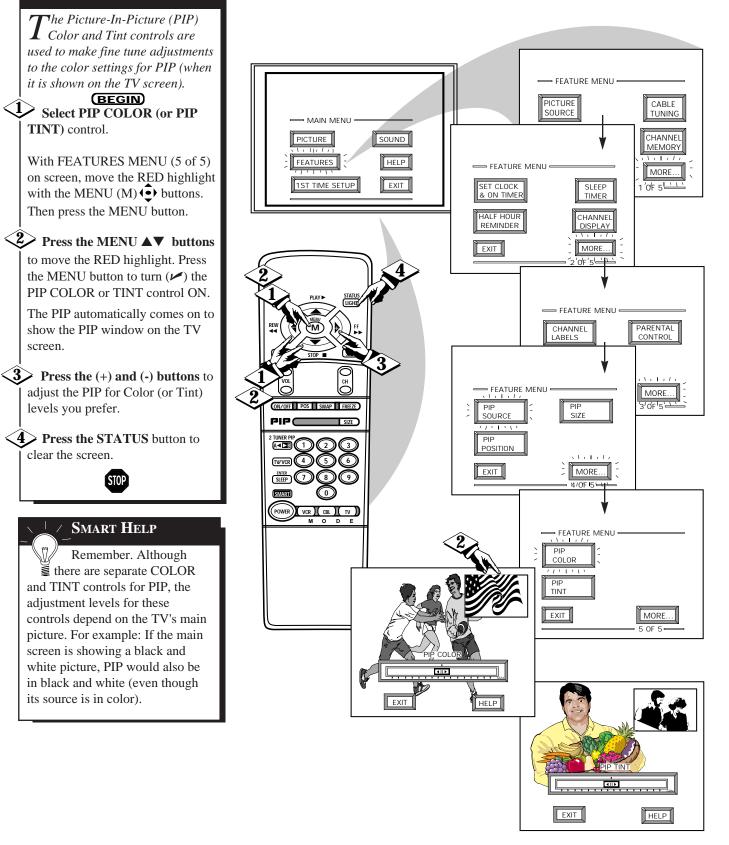
If you see the same picture on the main screen and in the PIP window, you may have the Main Screen and PIP window set to the same video input source.





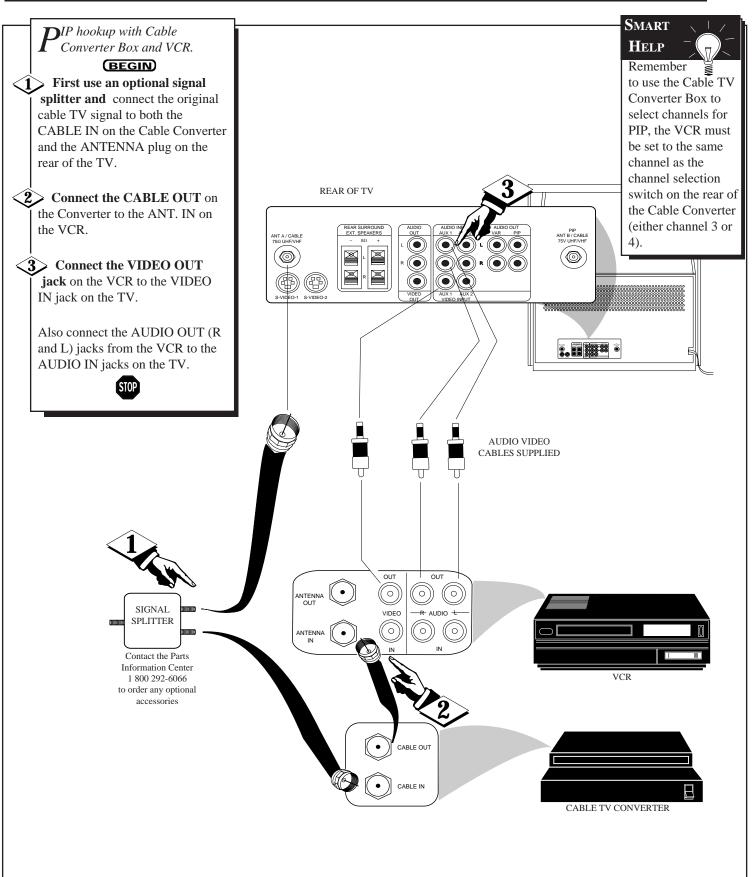
ADJUSTING PICTURE-IN-PICTURE COLOR AND TINT

PIP COLOR / PIP TINT



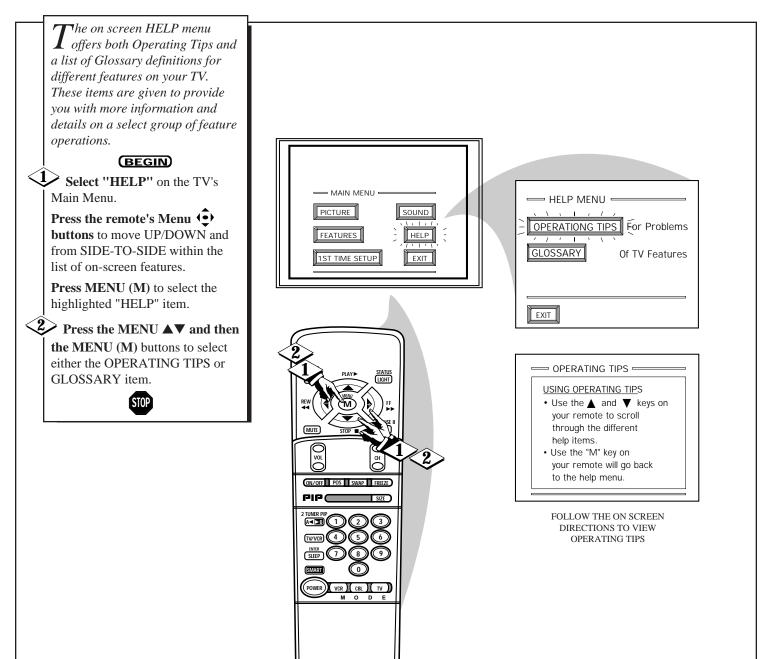
46

MORE PIP CONNECTIONS





TV HELP MENU



Please make these simple checks before calling for service. These tips can save you time and money since charges for TV installation and adjustment of customer controls are not covered under your warranty.	CAUTION: A video source (such as a video game, Compact Disc Interactive - CDI, or TV information channel) which shows a constant non-moving pattern on the TV screen, can cause picture tube damage. When your TV is continuously used with such a source the pattern of the non-moving portion of the game (CDI, etc.) could leave an image permanently on the picture tube. When not in use, turn the video source OFF. Regularly alternate the use of such video sources with normal TV viewing.
<u>No Power</u>	 Check the TV power cord. Unplug the TV, wait 1 minute, then reinsert plug into outlet and push POWER button again. Check to be sure outlet is not on a wall switch.
<u>No Picture</u>	 Check antenna connections on the rear of the TV. Are they properly secured to the antenna plug on the TV? Check the CABLE TUNING control for correct position. Check PICTURE SOURCE control for correct position ANT A or B, AUX1, AUX 2, or AUX 3 position without a signal source will result in a blank screen. Check the CLOSED CAPTIONS control. Some TEXT modes could block the screen.
<u>No Sound</u>	 Check the VOLUME and MUTE buttons on the TV and remote. Check the TV SPEAKER NORMAL/OFF control for the correct position. If attempting auxiliary equipment hook-ups, check audio jack connections and that the auxiliary equipment is on and in the proper operating modes.
<u>Remote Does Not</u> <u>Work</u>	 Check TV-VCR-CBL "System" buttons on the remote. Press the remote's <u>TV</u> System button to send commands to the TV; <u>VCR</u> System to sent to VCR; etc. Check batteries. Replace with AA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary. Clean the remote and the remote sensor window on the TV.
<u>TV Displays Wrong</u> <u>Channel or No</u> <u>Channels Above 13</u>	 Repeat channel selection. Add desired channel numbers (ADD/DELETE CHANNELS control) into TV memory. Check CABLE TUNING control for correct position.
	This TV is equipped with protective circuitry that shuts the TV off in case of moderate power surges. Should this occur turn the TV back on by pressing the POWER button once or twice, or unplug and then replug the power cord at the AC outlet. This feature is NOT designed to prevent damage due to high power surges such as those caused by lightning, which is not covered by your warranty.

Cleaning and Care

- To avoid possible shock hazard be sure the TV is unplugged from the electrical outlet before cleaning.
- When cleaning the TV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive- do not use household cleaners). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Specially designed screen cleaning kits are also available which contain anti-static cleaners and cloths designed to get into the ridges of the TV screen. If interested, ask your dealer about the MAG4600 Projection TV Screen Cleaning Kit or call our toll-free Accessory Parts ordering number 1-800-292-6066.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water and a mild soap or detergent. Use a clean dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the cabinet back.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.



A/V Inputs * Connector plugs which allow the introduction of distinct audio and video signals into the TV from accessory VCRs, camcorders, etc. These plugs bypass the normal tuner or RF/Antenna signal circuitry.

Coaxial Cable * A single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR.

Display * An on screen message or graphics that help the user operate and adjust his Television feature controls. See On Screen Displays (OSD).

Direct Audio/Video Inputs * Located on the rear of the TV these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

Identify* Method by which a remote control searches and finds an operating code for another product (such as a VCR or Cable Converter). Once the code has been "identified" then the TV remote can operate and send commands to the other product.

Multichannel Television Sound (MTS) * The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

Menu * An on-screen listing of feature controls shown on the Television screen that are made available for user adjustments.

Picture -In-Picture (PIP) * Term used when two pictures are shown on the TV screen at the same time. The smaller PIP picture is supplied by a VCR (or other tuner/video playback source). The PIP picture can also be moved and swapped with the TV's main screen picture. **Programming *** The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Remote Sensor Window * A window or opening found on the Television control panel through which infrared remote control command signals are received.

Second Audio Program (SAP) * Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. The most frequently proposed use for SAP is the simultaneous bilingual broadcast of TV program material.

Status * Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

S-Video Input * Allows direct connection of high-resolution video sources, such as a Super VHS videocassette recorder, Laser Disc player, etc. Provides optimum picture resolution, sharpness, and clarity.

Twin Lead Wire * The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.

INDEX

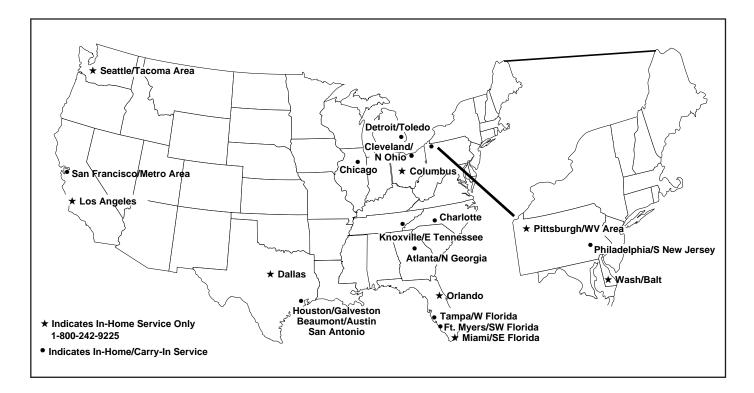
Accessories/Optional10, 26, 27, 28, 42, 47, *Q/U-1				
Add/Delete Channels				
Advance Buttons*Q/U-2, 4				
Audio Controls				
Audio/Video Input				
Automatic Programming				
Battery Installation*Q/U-3				
Cable TV Connections/Settings12, 42, 47 *Q/U-1, 2				
Channel/Time Display19, 22, *Q/U-3				
Channel Label				
Channel Memory13-14, *Q/U-2				
Channel/Time Reminder				
Clock Setting				
Clock Timer				
Closed Captioning11				
Color Controls6,*Q/U-4				
Convergence				
Controls/TV*Q/U-2, 3, 4				
Controls/Remote				
Exit*Q/U-4				
Features				
First Time Set Up*Q/U-2				
Help Menu48, *Q/U-2, 4				
Inputs/Audio and Video				
Menu*Q/U-2, 4				
Minus(-)/Plus (+) Buttons*Q/U-3, 4				
Parental Control				

Picture-In-Picture (PIP)				
PIP Audio Output jacks				
Picture Source Control				
Precautions/Safety	2, 3, 49, *Q/U-1			
Programming Channels	13, *Q/U-2			
Remote Control	32-41, 45, *Q/U-2, 3, 4			
Remote with VCRs				
Requesting Service				
RF Coaxial Cable	44, 49, *Q/U-1			
Reminder/Time and Channel				
Safety/Precautions	2, 3, 49, *Q/U-1			
Second Audio Program (SAP)				
Sensor Remote				
Sleep Timer				
Smart Picture				
Smart Sound				
Surround Sound				
Speaker Terminals	27			
Time/Channel Display				
Timer (Turn On)				
VCR Button				
VCR/TV Connections	28-31, 42, 47, *Q/U-1			
Tips for Service				
TV Speaker Control				
Volume Display				
Warranty				
5				

* Q/U indicates page number reference in the separate Quick Use Guide

Philips Consumer Electronics Company

Factory Service Center Locations



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product Please contact Philips at 1-800-661-6162 (French speaking) 1-800-363-7278 (English speaking)

<u>Au Canada</u>

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile Veuillez contacter philips á: 1-800-661-6162 (Francophone) 1-800-363-7278

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo Favor de comunicarse con Philips al: 1-800-661-6162 (francófono) 1-800-363-7278 (anglófono)

MAC2929 1/98

QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE. AND, IF THE PHONE NUMBER LISTED FOR YOUR AREA IS LONG DISTANCE, CALL **1-800-242-9225** FOR FACTORY SERVICE.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPOTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

GEORGIA

Philips Factory Service of Georgia 200 N. Cobb Pkwy., Suite 120 Marietta, GA 30062 (770) 795-0085

FT. MYERS, FLORIDA

Philips Factory Service Satellite - Ft. Myers 11601 Cleveland Ave., Suite 15 Ft. Myers, FL 33907 (941) 278-4242

FLORIDA

Philips Factory Service of Florida 1911 US Highway 301 North Tampa, FL 33619 (813) 621-8181

WESTERN U.S.A.

Philips Factory Service Western Region 681 East Brokaw Rd. San Jose, CA 95112 (408) 436-8566

NORTH CAROLINA

Philips Factory Service of N. Carolina 520 G Clanton Rd. Charlotte, NC 28217 (704) 529-6330

TEXAS

Philips Factory Service of Texas 1110 N. Post Oak Rd., Suite 100 Houston, TX 77055 (713) 682-3990

CENTRAL U.S.A.

Philips Factory Service Central US 950 Keynote Circle Brooklyn Heights, OH 44131 (216) 741-3334

MICHIGAN

Philips Factory Service of Michigan 25173 Dequindre Madison Heights, MI 48071 (248) 544-2110

ILLINOIS

Philips Factory Service of Illinois 1360 W. Hamilton Pkwy. Itasca, IL 60143 (630) 775-0990

TENNESSEE

Philips Factory Service of East Tennessee 6700 D Papermill Rd. Knoxville, TN 37919 (423) 584-6614

MID-ATLANTIC

Philips Factory Service Mid-Atlantic 352 Dunks Ferry Rd. Bensalem, PA 19020 (215) 638-7500

LIMITED WARRANTY

PROJECTION TELEVISION

One Year Free Labor

One Year Free Service on Parts

Two Years Free Service on Cathode Ray Tube Parts / 30 days Free Service on Projection TV Screen

This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. for one year thereafter (30 days for the projection TV screen), all parts will be repaired or replaced, and labor and transportation are free. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the cathode ray tube and the "Clear-Vu" lens, and for all labor and transportation charges. After two years from the day of purchase, you pay for the replacement or repair of all parts except the "Clear-Vu" lens (which is guaranteed against manufacturer's defects for the life of the product), and for all labor and transportation charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE...

Repair must be performed by an authorized service center or a factory service center. *If you do not live near a factory service center*, contact your dealer. If your dealer is an authorized service center, he will arrange repair. If your dealer is not an authorized service center, he will direct you to the authorized service center engaged by him to service the products he sells.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

IF YOU HAVE QUESTIONS...

Please contact Philips at:

1-800-661-6162 (French Speaking) 1-800-363-7278 (English Speaking)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _

SERIAL #

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Company, P.O. Box 555, Jefferson City, Tennessee 37760, (423) 475-8869

3135 015 07400

3135 015 07430

FEATURES



First Time Set Up - automatically sets the TV for local channels, the correct picture signal (antenna or cable), and assists in the setting of TV's Smart Clock feature.

Infrared Remote Control - operates your TV set and a variety of wireless remote control VCRs and Cable TV Converters.

Standard TV broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Closed Captioning - allows the viewer to read TV program dialogue or voice conversations as on-screen text.

Automatic Programming of channels - for quick and easy selection of favorite stations available in your area.

Picture-In-Picture (PIP) - can show a TV program and the direct video output from an accessory (VCR, etc.) onto the TV screen at the same time.

Parental Control for "Censoring" - this feature can block out channels to keep children from watching undesirable programming.

Stereo-TV - with a built-in audio amplifier and a twin speaker system, reception of TV programs in both broadcast stereo sound or (SAP) bilingual broadcast are available.

Twin Antenna (A/B) Inputs - for easy displaying of two separate signal sources on the TV. An A/B button on the remote control switches the TV's Main screen between the two Antenna (A & B) Input options.

Audio/Video Jacks - for direct connections with VCRs (and other accessories) for quality TV picture and sound playback.

Surround Sound - this TV set contains external; audio speaker connections for a more dynamic sound effect.

Sleep-Timer - automatically turns the TV OFF at preset time intervals.

Smart Button - for the control of TV Sound and the Picture levels. Use the Smart Button on the remote to quickly adjust Smart Sound (to set TV Volume levels during program changes or commercial breaks); Smart Picture (for programmed video video level adjustments on a variety of program sources); and Smart Surf (for quick one button channel selection of up to 10 of your favorite channels). As you unpack your TV please note that the following items have been included with your set:

- Owner's Manual
 - Safety Tip Information
 - Factory Service Center Locations
- Warranty Registration Card
- Remote Control Transmitter
- Batteries for Remote Control Use

Please take a few minutes to complete your registration card. The serial number for the TV is on the back of the set.

Refer to the back of this manual for instructions on the cleaning and care of the TV.

End-of-Life disposal

Your new projection television and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts which need to be properly disposed.

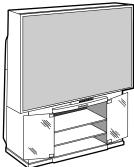
Your product also uses batteries which should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

Please find out about the local regulations on how to dispose of your old television, batteries, and packaging materials whenever you replace existing equipment.

OPTIONAL ACCESSORY STORAGE SHELF AND SCREEN FILTER

An accessory storage shelf compartment has been designed into some

Projection TV Cabinets for the placement of such items as VCRs, CD-i (Compact Disc Interactive) Players, or other pieces of audio/video equipment. If your Projection TV is so equipped, use the connection tunnel (located on the rear wall of the storage



compartment) to route Antenna, Cable, or other signal supply wires from the accessories to the TV's rear cabinet jackpanel.

Note: A Projection TV Screen Enhancement Filter may also be present on certain select models. Refer to the Cleaning and Care Instructions provided for directions on how to remove the framed filter if it should ever be necessary.